Stevens, G.

1962 - 1963

Alaska

Journal: 1962, 1963

Species Accounts: 1962 - 1963

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G. Stevens

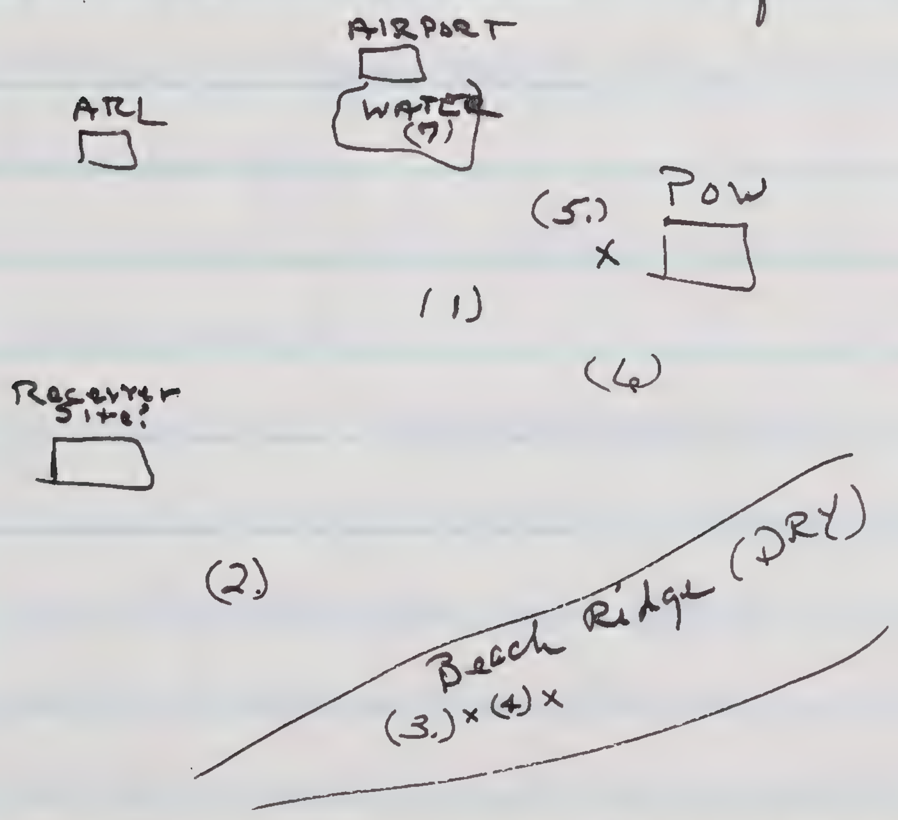
Journal
~~[illegible]~~

11 June 1962

Pt. Barrow Alaska

Clear day, high scattered clouds. Temp - 58° at 1100. Snow melting off fast on Tundra.

¼ mi SE of ARL on body of water were about 8 pintails, majority were drakes. One, new to me, present. Has pintail tail feathers w/ eyepatch (light) on black head and neck. Rump and lower body is white. Upper wing coverts have light brown arrows pointing distally. Did not frighten easily; pintails left as soon as we exposed ourselves - this one did not until we threw something near it. Checked Peterson - ♂ oldsquaw.



(2) On a slope ascending Beach Ridge, mammal sited which was larger than a lemming, at least a foot long. Ran low to the ground for about 25 feet + then disappeared. Was a dark brown. Found some tracks leading to broken ice.

(1.)(3.) 2 dead lemmings found. Taken back to Mullen for autopsy.

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(4.) Live lemming taken, put in pack. Put in colony. Very active.

(5.) 2 Birds. 8" high no dimorphism. Black head and belly; head w/ white scarf; back mottled brown. High pitched song, but like a short whistle. On high ground near lake. Checked Peterson — Golden Plover.

(6) ♂ & ♀ Longspurs on ground flapping wings (both) in a type of scuffle. Appeared that the male attempted to mount the female. Female immediately flew; I don't know how fast the copulation act is, ~~whether or~~ ~~[illegible]~~ whether this is the length of the act or not. After female flew, male went through the display pattern of flying nearly straight up and gliding down while singing.

7. more pintails & Oldsquaws here. numbers 5 & 6 respectively.

Incidentals: ~~Semipalmated pair seen~~.

2 other pairs of Longspurs. 2 pairs of Buntings.

On a high dry slope just SE of ARL, noticed patches of yellow buttercup-like flowers.

All over exposed tundra the grasses are becoming greener at the bases, growing upward further w/ each day.

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12 June 1962 Pt. Barrow, Alaska

Clear day, wind (fair breeze) temp. 38°F. (1230)

Lemming colony - All were alive this morning (0900) for the first time. The heater was not on and the temperature was in the forties. The lettuce given each one on the 11th plus the reduction in heat seems to have perked all of them up. I am not going to add lettuce today and watch results.

About 1400, checked traplines I + VI for scats of carcasses Dave Mullens put out. We found three, nothing startling.

Put kill traps on I + II starting a 3 days - 6 hr check. John Hines has the 2200 and John Sullivan the 0400.

Checked live traps on Beach ridge at pipeline for mark + recapture. One lemming caught, toes clipped and released. Central marsh very slushy and most ditches between polygons are breaking down.

2200 - 34°F no wind. Checked live traps where gas line crosses Beach Ridge. No lemmings caught. Very quiet. Very few bird songs.

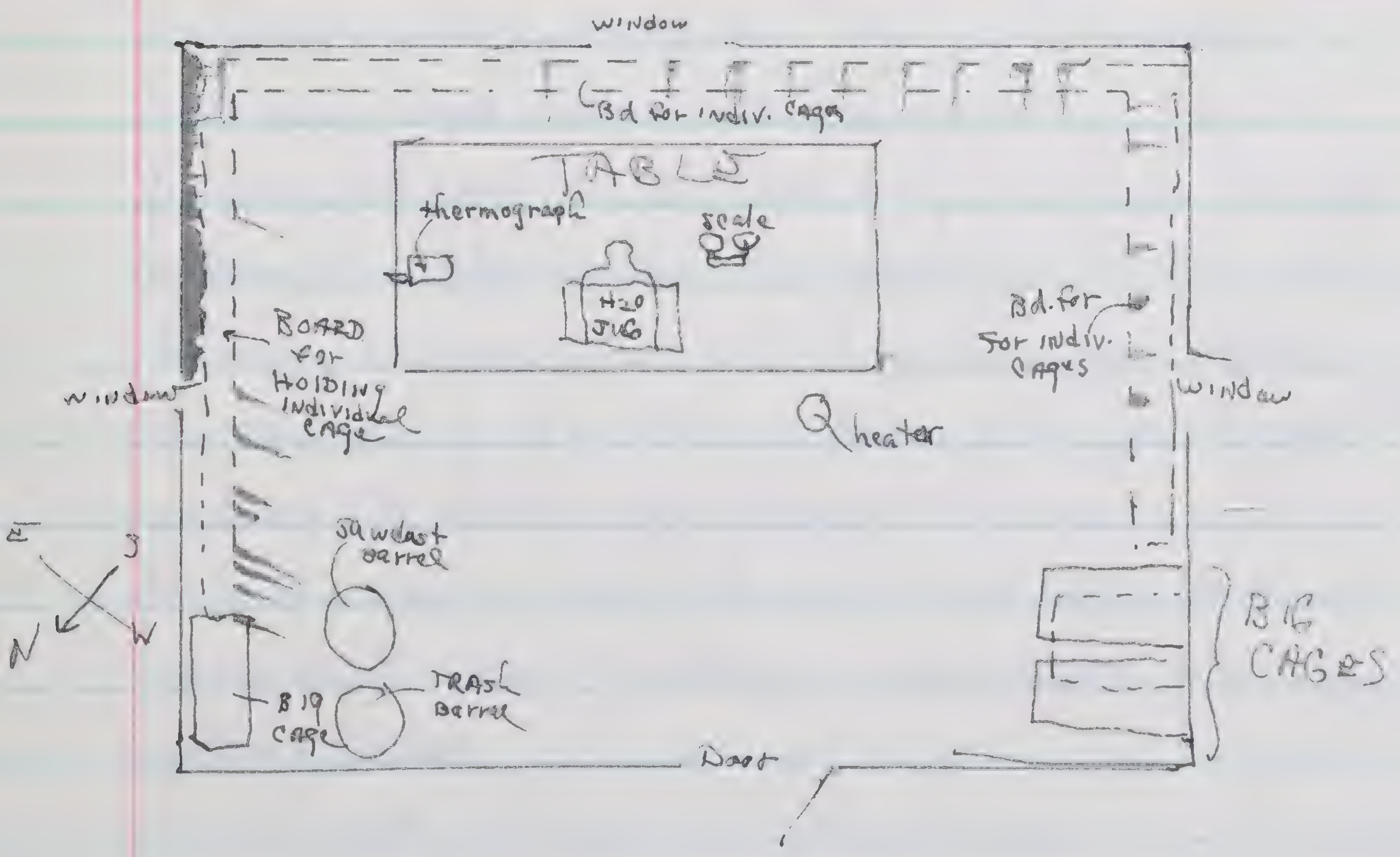
About 1700, someone brought in about 75 lemmings. I don't have enough cages to house each individual, ∴ I won't be able to maintain data until these are thinned out. The temperature in the animal colony is being maintained at about 54°± F (2200). I suspect there will be several dead in the morning from lack of water, etc.

Journal

June 13 1962 Pt. Barrow, Alaska.

Temperature at 0900 was 49°F; clear day and no wind. By night, cooled off to thirties. Spent all day arranging animal colony w/ Dave Mullen. Set up shelves and arranged the animals. Did not get into the field today. While pulling grass for lemmings, noticed Dupontia fischerii becoming greener. Small clumps of very green moss present. ~~On~~ on rhizomes of some grasses were many annelids. A few lemmings had died; some from the stress of overcrowding and handling, others from a type of cannibalism where one lemming tries to sip the tears of another for the water content and accidently nips him. After several nips by the others, the cannibalism is under way for the water, not the flesh, of course.

ARRANGEMENT OF Colony
(Floor plan)



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June 14, 1962 Pt. Barrow, Alaska

Checked lemming colony at 0830. Temperature okay. Started helping on data of dead lemmings but at 0930, went with Mullen to collect blood samples from lemmings. Found three in the morning and eight in the afternoon. Worked on animal colony in the afternoon and evening.

Temperature was in the forties in the field, windy in the morning, none in the afternoon. Very little snow left in the Barrow area. Lemming population has regressed with the snow and slowly concentrated.

Very little activity with birds. a few flocks flew over along with the usual longspurs, snowbuntings and sandpipers.

June 15, 1962, Pt. Barrow, Alaska.

Lemming colony thriving, no deaths. Worked on colony until after lunch. Early morning clear and temp. in high forties. Day progressively cooled off. By 1500, was sprinkling. Most of crew helped work on data on dead lemmings. Found a few pregnant cases. Mullen took vaginal smears. In late afternoon, I helped Mullen tie copper wire to the mandible of lemming carcasses which are to be placed by a stake on the trap line just as the snow begins in the fall. If foxes pick up the dead carcasses through the snow, we should find the copper wire in the scat. Will eventually finish wiring about 250. Finishing up data started on lemmings yesterday, today.

At 2100, went with Sullivan and Hines to collect kill traps on line I & II and check the live traps.

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Had been raining from about 1900 - 2400. Only a light rain. Very cold afterward although the sun is shining. Light bird activity. Nothing caught in kill traps nor live traps. Kill traps were picked up. Water pools and ditches with water are becoming deeper. Holmes should know!

June 16, 1962 Voth area, Pt. Barrow, Alaska.

1900 - Set traps at III A & III B. No snow, only some water in troughs around polygons. There is a dog sniffing around which could affect catches. ~~there is a nest~~.
All day has been clear with temp. starting low in the morning and climbing steadily.

Went with Mullen earlier about 1430 to check for carcasses and scats around line ~~IX~~ & X that he placed there last summer. Found a few scats and a carcass.

June 17, 1962, Pt. Barrow, Alaska.

Clear day, Temp. in high forties. Temp 51° at 1200. Lemming colony okay. Bill ~~[illegible]~~ Maher is back.

Went to Voth area with [illegible] on collecting trip. They got several birds; red phalaropes, Baird's, Dunlins & Longspurs. Activity is better than fair. ~~Some~~ displaying. Area is quite wet but passable.

About 1900, went with Holmes to record bird songs at Britton's area. Recorder didn't work. Night is clear with no wind and quite warm at times. Went on to Voth's area. Staked out several nests (6) of three different species; Dunlin, Semipalmated and a longspur. Better than average bird activity.

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June 18, 1962, Pt. Barrow, Alaska.

Day was overcast with intermittent showers. The tundra was covered by a light haze by the afternoon. Went with the Dave Mullen just south of ARL to collect lemming blood samples. We sampled eleven animals, all caught in the line of barrels nearest to the fresh water lake on the west side. Finished my work in the animal (lemming) colony just after lunch, and helped Mullen process the blood samples for the rest of the afternoon. That evening, I went through a square "cake" of sod for insects (Holmes). There was some bird activity in the field today even though we were only a small distance out. The water is running off rapidly now.

June 19, 1962, Pt. Barrow, Alaska;

Strong wind blowing in from NNW. Clear day, temp. about 50°F. Started on lemming colony. Stopped to observe Mullen do an autopsy on some lemmings used for blood samples. Mullen very adept. Continued working on colony until ~~1100~~ 1200. Read some yesterday. Rechecked lemming colony twice.

June 20, 1962, Pt. Barrow, Alaska;

Still windy, morning temp. was high forties, but in afternoon, temp. dropped more. Worked on colony until 1300. Prepared some extra cages to disperse the numbers of lemmings in the big cages. Set traps with Sullivan on lines 9 & 10 about 1400. The lines have some water at different points. Doubt if there is much activity in the area for lemmings, because a jaeger (~~parasitic~~) and a snowy owl ~~was~~ were right beside the lines. Pitelka didn't fly to Umiat

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and surrounding areas for observation due to a fog and high winds which started about 1530. Maher is setting up experiments on Longspurs & Buntings.

June 21, 1962, Pt. Barrow Alaska;

Couldn't start data on feeding and water use by lemmings in colony because data sheets are missing. Mullen probably borrowed them for study. Cleaned up a few others in the big cages. Last night about 1900, I gathered dry grass from the tundra by using a rake on the cutting performed by the lemming themselves. Filled the big cages after removing other grass and distributed some to the other animals. Weather still slightly overcast and wind blowing but not as hard as yesterday. a little warmer.

Worked in colony for rest of day finishing the routine work and making water bottle tubes with a less bend for the bigger cages. This, plus the new tubes are a greater diameter, should allow more water. Also added an extra water bottle to each cage. ~~By~~ afternoon temp cooled off like yesterday into low forties.

Left at ~~1900~~ 2100 to check kill traps at IX & X. I started checking while Sullivan went on to check his line traps on his plot. Nothing was caught on any lines. One trap was missing at 9.8 on line X. Checked a Longspur nest for Maher. Still only six eggs, no nestlings. We were back at ~~[illegible]~~ 2140. a fog is coming in. Probably won't reach ARL ~~but~~ has ~~reached~~ POW.

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June 22, 1962, Pt. Barrow, Alaska;

Clear day, wind still blowing in from S.W. Temp. in low forties. Checked kill traps on line IX & X with Sullivan. Nothing caught. Very little bird activity. Water draining from tundra into lakes had stopped. Tundra wet and sloppy in most of the area. Started to work on the lemming colony about 1030 and finished about 1530. Sullivan & Hines had already for Wainwright to set the trap lines. Sullivan will stay for the 3 days and Hines will return with the plane. In lemming colony, in over 50% of individual animals, there was a dropoff of food intake of at least 2 grams, usually more. What is strange is that ~~B~~ most of these were building up a larger & larger intake. Might be a leveling off time, or perhaps environment.

Checked trap line IX & X at 2100-2200. Got 3 Lemmings, 2 on IX and one on X. Saw a flock of at least 64 pectoral sandpipers ~~on~~ the road and adjacent hillside. (See species account.)

June 23, 1962, Pt. Barrow, Alaska;

Clear day, temp in low forties, wind slight, checked Trap line IX and X after leaving Pitelka at his plot. No kills. Checked 2 longspur and 1 snow Bunting nest for Maher. Still eggs.

Went with Mullen about 0900 to collect blood samples. Found some nests of birds (see species account) but only 2 lemmings. One was running across the tundra obviously startled by the weasel. Went into a burrow. Started to use the shovel to dig the lemming out, but only the first plunge was enough

to send it running out into Mullen's hands. The second was caught under a barrel in the line of barrels closest to the fresh water lake road. After lunch, Hines joined us and besides succeeding in finding a few more nests, we caught 2 more lemmings, again in the same manner, one running into a burrow and another under a barrel. Day was bright & clear, would have been quite warm except for a cold breeze. All the blood samples were taken in what could be termed the 'Drum area.'

At 1500, helped Mullen process the blood samples by cleaning his glassware as he went along. Started work on the lemming colony at 1630.

Pitelka, Brewer and Mullen decided to use an older hut for a second animal colony for the newly arrived Mike Adams, who will use it for specific type of vegetation feeding to lemmings.

Finished work on lemming colony at 2030. Went with Hines to gather in traps from lines IX & X. Caught one lemming (♀) on IX. Very chilly tonight (thirties) though clear and ~~sun~~ sun shining brightly. Pectoral sandpiper flock seen last night on the fresh water lake road seemed diminished to about thirty. From what I saw of some today, the flock has spread out which would seem to mean they are just arriving. But Holmes says they are all males. Holmes also shot about a ½ dozen today. Also noticed the snowy owls were not in the area of the trap lines IX & X.

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June 24, Pt. Barrow, Alaska;

Overcast day with a slight drizzle making it seem cold. Sun came out about 1100 for a couple of hours but is now hidden. Started working on the colony about 1000 and finished at 1430. In the morning, I interrupted myself a few times and took a longer lunch than usual. Not much activity in airology, Maher is working on his experiments in Longspur and Bunting incubation. Sullivan is not back from Wainwright yet. Holmes has gone to Iknovik to do some censusing.

After the movie, Hines and I went to set 4 lines of traps; V, VI, VII, VIII. We went across the central marsh and past Vehlselag slough, missing the lines completely. Doubling back, we found V & VI near Pitelka's plot and then VII & VIII. Lines VII & VIII are partially under water and Pitelka said that these lines were to be moved at least 30 feet to one side due to the churning up of the soil and vegetation. Fog cut visibility down to one-half to one mile. ~~Earlie~~ It was constantly drizzling. After having left at 2100, we returned at 2400. Due to this drizzle, there was a little bird activity but usually of short duration.

June 25, Pt. Barrow, Alaska;

Clear day with a strong cold wind blowing from the NW. Pitelka checked traplines V, VI, VII & VIII. No kills. Worked on colony until lunch. Mullen pointed out several cages(?) in the warehouse for breeding cages. One

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June 25 (cont.)

was too dirty, the remaining six had some sawdust put in them. I waited for Mullen before doing anything definite. When he arrived, the procedure went as follows:

1 Separated sexes from all the big cages.

2. In one big cage, several males were accidently put. Terrific battles must have ensued, because everyone was hurt in some way. Mullen did not want to use any of these. Only one other from another cage was hurt. Tomorrow Mullen will run blood samples on these hurt ones for a criterion to base blood taken from stressed lemmings. Fortunately, Mullen extracted blood from a near-death lemming exhibiting stress conditions. Results were good.

3. All juvenile and subadult sexes were kept with their own sex since there was no fighting. The adult males & females were used for breeding.

4. It was necessary to use some males & females from the individual cages for breeding. These were replaced with young lemmings which offer a better metabolism curve.

5. All the ones in individual cages were sexed at the same time.

6. We secured a long wooden box, putting the six breeding cages on it, three high.

7. Afterwards, I made more water bottle tubes for the breeding cages and collected dry grass from the tundra

Journal

June 25 (Cont')

8. Mullen brought down some curtains (white) for all 3 windows which were hung immediately due to the fact that other buildings around the colony had been moved which would allow too much light and, consequently, heat.

Hines checked trap lines V, VI, VII and VIII tonight.

June 26. Pt. Barrow, Alaska.

Sullivan arrived at 0300 from Wainwright. Returned with 35 kills, about half-collared lemming. After I started working on colony, Mullen came to take blood samples on 5 wounded lemming, all, save one, from the same cage. I then helped Mullen to process part of the blood by washing glassware in his lab until 1430. I worked on colony until dinner. After a happy hour at Mullen's, went with Holmes to the NW end of Upper Meadow Lake to try to record songs of Sanderling. Recording was a success; recorded the flight song of the Sanderling. Snow flurries were falling from 2400 on into the next morning. No snow on ground, though. Turned on heater in lemming colony when I returned with Holmes.

June 27, Pt. Barrow, Alaska;

Worked on lemming colony all day finishing setting up breeding cages (4). Accomplished by removing males and females of approximate same weight from individual cages and mating them. The females were all open. Also put brown wrapping paper on sides of breeding cages to add darkness. After dinner, I worked on the colony some more doing routine work. One

Journal

June 27 (cont')

was found to have a (self-inflicted, somehow?), forearm missing and a blood stump protruding. This animal has jumped from the table before and probably severely broke it then. I will [illegible] it away in the morning and replace it with another as it is no longer a control animal.

June 28, 1962, Pt. Barrow;

Clear day with wind. Sun is very warm. Temperature in colony all right. Hines, Pitelka and I were all set to lay down traps on lines IV A, B & XI, XII; but the weasel we had wouldn't start and others were not available. I started on colony but was interrupted to help on processing data of lemmings. Hines was called away to observe birds & other creatures on a plane flight. Sullivan got word a few minutes later to eat lunch early to leave for Pitt Point after lunch. After lunch, Pitelka and I set lines IV A & B. Lines XI and XII were too wet. Holmes came along to Britton's Area and got off to do some observations. Pitelka showed me the way he wanted the lines set. Finished some work on the lemming colony before and after dinner.

June 29, 1962, Pt. Barrow;

Checked the temperature in the colony first and then checked trap lines IV A & B from 0830 - 0930. There were two kills, both Lemmus, and both on IV B. A clear day with a strong, cold wind from the north. After returning, read a report on the absence of St[illegible] indications in Lemmus trimucronatus [illegible]

Journal

June 29 (con't)

Mullen & Pitelka went to work on colony about 1030. Worked on the colony until 1700. This included chasing after 2 barrels of sawdust. Also weighed the breeding pairs today. No abrupt changes yet, of course, but one did die when he (♂) hooked his upper incisors onto the wire mesh and couldn't release. He was replaced immediately. Checked traps after dinner with Hines; no kills, very uneventful trip to lines IV A, B. Attended a seminar on "Current Developments in Bird Orientation" given by Dr. Klaus Schmidt-Koenig. Had very good points. Returned to lab to process the two animals caught. One had what looked like placental scars, but Mullen does not think so. It has a closed pelvis. Mullen will check further.

June 30, Pt. Barrow;

Started on Lemming colony the first thing this morning and worked at it until noon during routine work. Hines checked the trap lines. After lunch, Mullen attempted to take urine samples but we weren't able to nab the animal and procure a sample at the same time without the animal losing all its urine first. I observed Mullen's work in counting reticulocytes and staining procedure beforehand. Pitelka left today without having the chance of feeling this warm day with the warm breeze and hot sun. The temp., at one time, near noon, was 64°F.

Hines & Holmes both encountered mosquitos at Beach Ridge & Vohlschlag Slough.

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July 1, 1962, Pt. Barrow;

Started on colony at 10:30 A.M. working on it until 1430. John Hines checked the trap lines (IV A & B) this morning without finding a kill. It rained fairly hard this morning and was cold & slightly foggy until 1500. The ~~sun~~ sun came out at this time. Turned cold again and foggy. I picked through an insect sample for Holmes. After dinner Hines & I picked up the traps without any kills recorded.

July 2, 1962, Pt. Barrow;

Worked on lemming colony until 1400. Holmes & Mullen went to Ikroavik last night returning about 1600 this afternoon. I put up a lemming study skin and John Hines & I processed six remaining female lemmings. John found one female with eight unplanted embryos on one side of the uterine horn. About 2000, Hines and I went to trap lines XIII & XIV to set the traps. Had no trouble in finding them. There was some bird activity. Got back about 2130. It was a dreary day with a cold breeze and intermittent drizzles.

July 3, 1962, Pt. Barrow, Alaska;

Checked traps at 0830 on lines XIII & XIV after leaving Hines at Pitelka's plot to census. Nothing was caught at the lines. After returning, Holmes took the weasel out for observation on the Curlew Sandpiper and planned to pick up John on the way back. I worked on the colony until

Journal

July 3 (Cont'd)

Dave Mullen came in and wanted to take blood samples of healthy lab lemmings of the approximate weight to some stressed animals (lemmings) which had had their blood sampled. After the sampling, I helped Mullen process the blood. I worked some more on the colony until dinner and finished the colony after dinner. The weather today was varied with snow flurries and sunshine. Tonight a fog is settling in but visibility is good for about an half-mile.

July 4, 1962, Pt. Barrow;

Clear, cool day (40's), slightly overcast but clearing by late afternoon. I worked on the colony today mostly having a great deal more to do than usual. Holmes & Sullivan checked the traplines XIII & XIV this morning without finding any catches. In the colony I am fairly sure one female is pregnant due to a vaginal plug and another fairly certain due to a large increase in weight. Mullen is having breeding cages built with movable hinged doors for observation. There are no extra lemmings not in individual cages. After dinner Holmes & I went out, he went on to check the traplines XIII and XIV and I stopped in the Central Marsh to hunt specimens. Holmes returned about an hour later after I had got only a Pectoral Sandpiper. Together we cut across central marsh stopping in the middle to shoot a Phalarope and a Red-Back Sandpiper.

Journal

July 5, 1962, Pt. Barrow, Alaska;

A clear day with a strong, gusty wind from the east. I checked the colony first and then after cleaning a skull of a lemming and running a gun patch through a shotgun, Mullen arrived to go blood sampling on the tundra. We started close by the first row of barrels near Fresh water Lake and worked our way south. We found only one lemming in an hour. As we were around trap lines IX and X, Sullivan joined us and we proceeded to a pile of drums in the "drum area". Mullen had his problems from then on. After just entering the area, a track was broken. We walked back to Ariology looking around the area for lemmings. Upon reaching ARL, Mullen discovered he didn't have the body of the sampled lemming. After lunch, I backtracked to the weasel but didn't find it. Mullen went with me a second time and found it.

Holmes and Hines left for Ikpikpuk[?] for the day returning about 1700. They checked the traps this morning on their way and found nothing.

I worked on the animal colony from 1830-2030 and went with Hines & Sullivan to pick up traps on XIII & XIV. No animals were caught. This line completes the series run here at Barrow for the first third. We will begin all over again earlier but not later than the 15th of July.

Mullen came down to ARL proper to find the medic to work on his hand he had cut with a wood chisel. It was

Journal

July 5, (cont.)

a good, clean cut, bleeding profusely at first, but Dave had stopped the bleeding. The medic was found & began work.

July 6, 1962, Pt Barrow, Alaska;

Clear day with a warm breeze but cooling off toward evening. Started on lemming colony about 0830. Only worked a few minutes. I broke a graduated test tube during work on the first lemming which made me decide to do something else for awhile being still too groggy to work right.

I started skinning a Phalarope with occasional advice from Holmes & Hines. Sullivan had walked out to his line plot about 0900 returning at about 1100. I worked on this bird all morning, working slow, then having to take it apart and do it again. It didn't out extremely bad, but very amateurish. Mullen could not obtain a weasel for blood sampling this morning but finally got one this afternoon, so we decided to leave at 1400. However, news came that someone, Hines or Sullivan would leave for Cape Simpson right away. Hines & Sullivan were at Pitelka's plot, Hines censusing and Sullivan observing. I went out and brought them back in. The three of them, Mullen, Sullivan & Hines, decided Sullivan should go, and that Hines could go on the pickup plane and Sullivan could show him the lines at that time. Now the plane will not leave until tomorrow. Immediately afterward Mullen & I went looking for lemmings. We did not find a single one, even though we spent 2 hours in the

Journal

July 6 (cont'd)

Voth Area searching. Muller's hand does not bother him. I worked on the colony after dinner finishing about 2100. Tomorrow Muller wants to go to Ükpik to search for blood samples.

Note of Interest: the Arctic Fox investigators, Dave Chesmore & Dwain Davies returned about 2200 tonight. They reported finding many dens, but no activity in any. They saw only 3 foxes.

July 7, 1962, Pt. Barrow, Alaska

Clear day with a soft, warm breeze. It became warm enough for the mosquitos to come out, especially in Central Marsh. I checked the [illegible] colony first thing this morning, checking the temperature and water bottle failures. Until Muller arrived at 0920 to go blood sampling at Ükpik Slough, I worked on mending museum specials with Hines & Sullivan.

Muller and I circled around the POW site finding one lemming under a barrel. Later one was found near Ükpik slough. There was plenty of bird activity, quite a few in flocks.

Sullivan left for Cape Simpson before lunch. Hines & Holmes left to go insect sampling after lunch. I helped Muller with the blood sampling pouring and then went to the Voth Area to gather some dry grass for the breeding cages. I worked on the breeding cages for awhile and then went to dinner. After dinner, I finished the colony work,

Journal

July 7, (cont'd)

including adding new breeding boxes which have a liftable top for observing the young. These will replace the coffee cans.

The weather has changed. Clouds rolled in and the wind came up. Now it is raining which started about 2100. It is only a steady rain, not heavy.

A friend of Maher, John Karanda (sp.), came in today. Maher says he is a botanist.

July 8, 1962, Barrow, Alaska

Started to work on the colony the first thing in the morning. I made a mistake in mixing up data sheets and lost two hours untangling it. The weather was gloomy with intermittent showers in the morning, clearing in the late afternoon and evening. Maher did note that the barometric pressure was down to 27.7mm, the lowest Maher had seen it this summer.

After dinner, I baby-sat for the Mullens while they went to a movie I had already seen. After the movie I left with Holmes for Ikroavik. The Wannigan had been broken into for the second time. Only a few can goods had been taken. No equipment has been taken in any instance. The latch with the padlock had been unscrewed and removed. ~~We crossed the plot the next morning moving quickly through the area due to little bird activity. After lunch we took the long way to 4RL by circling through* the marsh areas at the south end of Ikroavik Lake. Observed flocks of phalaropes, Sabine's gulls, and various numbers of Steller's Eiders, Longtailed Jaegers, Arctic terns, Snowy Owls & Oldsquaws.~~

Journal

July 9, 1962, Lake Ikroavik, Alaska;

Clear warm morning, warm enough for the mosquitos to be out. We censused the plot, moving quickly through the area due to little bird activity. After lunch, we took the long way to ARL by circling through the marshy areas at the south end of Lake Ikroavik. Observed flocks of Phalaropes, Sabine's gulls and various numbers of Stellar's Hens, Longtail Jaegers, Arctic Terns, Snowy Owls & Oldsquaws. Upon reaching ARL, I checked the colony to find Dave still working on it. I finished what was left later that evening. Dr. Schultz and Dr. Connie. D....... arrived this day. On the way in, Holmes spotted a lone caribou to the north of the Gas well. We couldn't get within 3-4 hundred yards of it.

July 10, 1962, Pt. Barrow, Alaska;

Very crisp morning with some wind from NE. Mullen and I went looking for lemmings to blood sample and, also, Dave wanted birds to skin this winter. It ended with just the taking of birds as we found no lemmings all morning. After lunch we tried for some lemmings but finally came back and got John Hines along with Bill Maher to go to the Duck Camp hunting Eiders. I rode with Bill Maher arriving after Hines & Mullen had already shot 3 Oldsquaw. Moving back to a dirt bridge S. of the Duck Camp, Dave bagged 2 King Eiders. John Hines had gotten one but it swam into Salt lagoon #1. Before I could work on the colony

Journal

July 10 (cont') I had to pick up 5 lemmings in the village from P. Sovalik. After this did the work in the colony.

July 12 Pt. Barrow, Alaska;

I was still in my hut when Sullivan came and asked if I wanted to go with him & Hines to POW A at Cape Simpson. I rode down to Mullen's house to see if he would take care of the colony and then went to the airport. The weather was clear here but at POW A, the ceiling was down to 500 ft. Murphy, the pilot, had no trouble landing.

Cape Simpson, Alaska;

The POW station here is smaller than at POW main of course, but very adequate. The first thing, Sullivan took Hines and I to the four lines and we walked each one of them. We returned and waited for the plane. On the return trip, I noticed that the ice was broken up in small pieces off the shore of ARL. There were not any apparent mass movements of birds, in fact, not even solitary ones were observed.

July 11, Pt. Barrow, Alaska;

After checking the colony, Dave & I left for Ukpik Slough for blood sampling. We found two before lunch but did not go back after lunch. I worked in the colony the rest of the day after helping Dave to process the blood. On the return trip from blood sampling, a Red-backed Sandpiper nest with nestling was found. All three nestlings were taken along with the female. All three were promptly sacrificed as Dick wanted to know

Journal

July 11 (cont'd)

the stomach contents without further digestion. Also a phalarope nest with nestlings was found but not taken. A clear day but overcast. Wind was from the NE.

July 13 – Pt. Barrow, Alaska;

Started on the colony about 1030 working until after lunch, Hines, Sullivan & I went to set traps on lines I, II, IX & X. Very nice day, warm breeze but slightly overcast. Holmes & Mullen took Tracy I. Storer & his wife on a small tour of the Tundra. The Storers arrived the 12th and are staying with some people here for a few days, just on a visit. The lines have lost much of the water that was evident earlier between polygons. We will have to check line XI & XII to see if it would be possible to run them. I finished the colony upon returning. Something I should have noted earlier, in fact two things; one is that there are two litters being taken care of in the lemming colony, one from a pair of breeders and another from a female who was brought in from the village & had the litter the same night. Another fact is that in some 13 lemmings brought in from the village 2 or 3 were very young, suggesting that some young are running around.

July 14 – Pt. Barrow, Alaska;

Very warm morning, heater had to be turned off immediately in the colony and windows opened. After doing some of the routine work, Dave came by and suggested a much faster way of doing the routine work, which I believe to be simpler & actually, faster. Also Dave wants to run a test on 6 lemmings (J-34),

Journal

July 14, (Cont'd)

3♂ + 3♀, by putting these in an environmental temperature condition which would be colder, especially at night, and seeing if the weight increases. Dave noticed that the weight spurts at the beginning of the summer were coincidental with the fact that the temperature in the colony was undergoing great changes in temperature. Now, the temperature has been controlled to 55°F, ±5°, and the weights have leveled off. New animals arriving do not seem to take a large weight spurt as the beginning animals did. Significance? The six animals will be put on the "back porch" of virology and the back door left open. Bill Maher will not have his equipment there as he is going away on a plane trip for a week & then to Berkeley. About 1300, Dave invited me along with Schultz, Pieper, Japp, Hines & Delwitch to go to the Point looking for Eskimo artifacts, duck hunting, and in some instances, a look at the vegetation. Hines & Mullen got off at the "Duck Camp" and the five of us continued on. Schultz & Delwitch found a few interesting items. I wandered down the slab of land running east from the Point. I came across a Brant in the ocean but couldn't entice it in closer. Several flocks of Oldsquaws were around and I did see a seal bobbing up and down, but it dived completely when I tried to get a little closer. Drifts of fog sauntered across the Point several times. When I got back to the Point proper I noticed a loon-like bird flying within shooting range. The

Journal

July 14 (Cont')

second time it passed, I waited for it to fly over my head and turned to shoot it going away but I looked directly into the sun. the third time it returned, it was with its mate. This time, I hit it when it was directly overhead. Actually, I could have gotten both if I had not been concentrating so much on one. I was a little cautious about shooting two when I didn't know what they were for sure. Upon closer examination, it was a Red-throated Loon. Hines is putting up the skin. I finished up the colony that late afternoon & evening.

July 15, Pt. Barrow, Alaska;

Hines & Muller left for the Inaru River at 0700 via the float plane. I worked some on the colony while Sullivan checked the trap lines. The colony took longer than I expected, due to a lot of weighing and since it was Sunday. I didn't much else after dinner except check traps with Sullivan

July 16 Pt. Barrow, Alaska

Sullivan checked the traps while I started the work on the colony. Before I actually started, I sexed the lemmings in Mike's colony, trading him six of mine, which were near in weight (30-40 gms) for 5 pregnant females. I set the females in a deeper type of individual cage that Mike had. A new litter was born today, of nine pups, mother doing well. After lunch, I borrowed Dick's weasel and went to Voth area to gather some dry grass

Journal

July 16 (Cont'd)

for nesting material. I also checked lines XI & XII for dampness. Except for a few spots of wetness and some slush on other parts, the lines are okay to run; in fact, this is probably as dry as it is going to be. On the return trip, I saw 2 ducks in the ocean I didn't recognize. I described them to Dick and he went with me to take a look, but they were only Steller's hens. I finished the work in the colony before dinner. After dinner, Sullivan & I brought in the four lines of traps in time to make the seminar given by Hal Peyton on the properties and experiments he has performed on ice. Very interesting.

July 17 Pt. Barrow, Alaska;

Very warm day, had to open door & windows in colony as soon as I arrived in the morning. Worked on the routine stuff until lunch. After lunch, went with Sullivan to put out lines III A, B & IV A, B. Quite a few insects were in the air. I got a pregnant female alive at IV A and took it back to the colony. Stayed warm all night. The duck hunters have started at the "duck camp."

July 18 P.T. Barrow, Alaska;

Another warm morning and the door was left open. I moved six lemmings to the "back porch" of airology for an experiment: this experiment is to see if the lemmings will increase in weight if they are put

Journal

July 18 (Cont.)

in an environmental situation as far as temperature is concerned. The back door will be left open at all times to ~~allt~~ allow great fluctuations in temp. After the routine work, I weighed the six pregnant females obtained from Mike through Trade and started them on food + water data. I had checked traps that morning with Sullivan and this night too.

July 19. Pt. Barrow, Alaska;

Warm day but enough breeze to keep the insects down. Checked traps in the morning with Sullivan. Started skinning a lemming, couldn't get the fats off from around the jaw area; decided to soak it in white gasoline. Processed the lemmings caught in traps with Sullivan and then helped Sullivan mark the pointers on his device for point sampling. Started to work on the colony after lunch. I did the six lemmings in the temperature experiment first and then went to the colony. When about half the work was done, noticed a birth process going on from one of the pregnant ones brought in the village. She had already dropped two or three when I noticed her. I could observe her because she didn't have a breeding box. She turned in a tight circle within the nest, once almost rolling over on her back. Once there was a good view of her eating the afterbirth. The births were about 2-4 minutes apart. At

Journal

July 19 (cont')

intervals she would huddle on her litter either cleaning or just resting. Once she did go for water. She didn't seem disturbed due to my presence even though she did know I was there. I weighed the nine pups about an hour after all had been dropped.

July 20, Pt. Barrow, Alaska;

It rained the night of the 19th but had stopped by early morning. Rain started when we went to check traps & stopped when we got back. I put up a Golden Plover chick after doing the routine work on the six on the "back porch" of avology. Mullen and John Hines are not in yet. Maher left with the float plane and will be back Saturday. Worked on the colony until dinner. After dinner we collected traps. I finished the colony right after dinner.

July 21, Pt. Barrow, Alaska;

A cool day. Started on the colony first thing working on it until lunch. About 1400, Sullivan left to set lines V, VI, VII, VIII in Central Marsh. I forgot to tell him (Sullivan) that F.A.P. wanted V & VI moved to one side until today, and now it is too late. We will move them next time. There were weasel track freshly run across VII & VIII. We'll have to find out who's been going into the marsh recently. Did some more work on the colony after dinner.

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July 22. Pt. Barrow, Alaska;

Very pleasant morning, cooling off toward noon. Checked traps with Sullivan and then started on colony. Worked on it until dinnertime. After dinner, checked traps again. Rained hard for awhile tonight.

July 23. Pt. Barrow, Alaska;

Maher is back and I suppose a flight will be going to pick up Mullen & Hines soon. Checked traps this morning with Sullivan. Very windy but not too cool. Started working on colony but stopped before lunch to see Hines who had returned with Mullen - John told us stories, will be interesting to hear Mullen's version. They took 30 lemmings at the Imaru along with birds. Also caught one shrew. John reported very little massing of gulls, but did see distraction display of Pectorals & Black-bellied Plovers. Finished colony after lunch and in evening. Sullivan & Hines checked traps. Wind still blowing strong, becoming cloudy by 2200.

July 24. Pt. Barrow, Alaska.

Checked colony and talked to Mullen, briefing him on progress. Schultz received a shock, Mike Adams wants to go in a week to start on another job. This is a critical time. Perhaps Mullen can work out something whereby we can help. Sullivan and Hines processed the samples from the Imaru. Tonight, line V, VI, VII & VIII

Journal

July 24, (cont')

have to come in. Tomorrow XI, XII, XIII + XIV will be set.

July 25 Pt. Barrow, alaska;

Started on putting up a lemming skin until Mullen came and we began work on the colony. Mullen is trying to plan ahead for experiments. We went over the data on the litters. Some will be toe clipped for individual growth rates while two others are reserved for an experiment for Schultz. Yes, We have worked out a procedure with Schultz for running this extra colony. Adams will complete a 10-day experiment on ten animals with the grasses, Dupontia + Arctophala. At the present time, the experiment is being run for data concerning food + water consumption, weight gains or losses, and feces analyses. Mike Adams wants to leave Aug. 31st. On this day or the next, we (or rather I) shall start to cut back on the amount of grass being added, and put in part lab chow. Thus, the next day, put in more lab chow than grass, and the following day, just lab chow. This will give all animals an equal start on the next ten day trial with Eriophorum + Carex. Another experiment to be run (perhaps with the growing litters) will be to add grass from the fertilizer plot to half a group, (probably, again, a litter), and to the other half, grass grown normally on the tundra. Schultz is devising an outline before he leaves the 28th. Rex Pieper will probably do most of the collecting of grasses, although we will all try to help as much as possible. Mullen decided not to go blood sampling, but to work on the colony some more today.

Journal

July 26, Pt. Barrow, Alaska;

Checked the colony for water bottle failures and the temperature range. When Dave arrived, started to work out the experiments for the colony in a more formal way. We figured how many breeding cages we had and how many with litters would need one. Then the remaining cages (2) ~~were~~ are to be filled with a male each, acting as studs. Acceptable females will be placed in the cage with a male for five days and then put in a deep cage with a breeding cage. This will give a known uterine scar count. Four other females with litters who are probably pregnant already will have a male in with them all the time to see how many litters they can possibly have. Worked in colony all day with Dave. Very windy day but clear.

July 27, Pt. Barrow, Alaska;

Started in colony with Dave to finish up all the work started the day before. All the experiments discussed on July 26 were started. Have a good organization. Dave plans to take blood from several of the colony members if he cannot get adequate blood in the field. It started to rain last night early in the morning. Today it is very windy. (a micromet person said he recorded a gust of wind up to 31 mph; this is not the highest, I am sure.) There is constant drizzling. After dinner I went with John Sullivan to collect traps from XIII & XIV. No rain, just the wind at this time. Many of

Journal

July 27

The traps were under water or floating.

July 28, Pt. Barrow, Alaska;

Started on colony in the morning working on it until noon. There had been some drizzle this morning and been overcast all day. The wind almost continually blew from the west. In the afternoon, Mullen, Hines & I went to the Point to collect, hunt ducks and see if anything was washed up on the beach. All we ended up with were some phalaropes & Turnstones Dave collected. Started to fog in about the time we left and visibility was cut to about 100 ft. by 1700. Arrived back in time for a few minutes of a "happy hour" for the Paytons who are leaving Sunday, 29th. Finished the colony after dinner & while Hines & Sullivan got the traps in from XI & XII.

July 29, Pt. Barrow, Alaska;

Didn't do anything until after lunch. Had a long night, the 28th. Worked on routine work in colony until dinner. About 1600, Rex told me to come to airology & meet Alfred Bailey, a man named Wells & Tom Brower. Very interesting were some of the tidbits told by Bailey of his times here, 41 years ago. Mullen showed them around and then went to the village with them. Occasional drizzling all day with fog coming in about 1900 and leaving around midnight.

Journal

July 30, 1962, Pt. Barrow;

Started on colony early because there was a possibility that Sullivan & I might go to Wainwright; he, to set traps and stay, and I to find out where the traplines are and return. Won't be able to go until possibly tomorrow. Went sampling for blood with Dave. Went to the "barrel area." Caught 15, of which 14 were sampled; the other died too soon. It was very easy to find these. Over half were juveniles. One litter and mother were taken. This took three hours or more. Started processing the blood by 1530. I washed the glassware while Dave analyzed. His dye was off and his microscope light burned out but we struggled through. Went to the colony to finish. Dave joined me soon after & we finished it. Seminar tonight, starring Dr. Wood with his subject of "Arctic Flowers." Drizzled off and on with a small wind.

July 31, 1962, Pt. Barrow;

Checked colony for water bottle failures and then worked on the colony data sheets. Sullivan volunteered to help me in the colony. I finished with Sullivan's help, by 1500. Dave & I went over the project of Schultz's for grass feeding the lemmings. Adams left today. We put the lemmings on lab chow to start them all from scratch. In 3-4 days, we will start these on Eriophorum & Carex. I went back with Dave to wash glassware because Max Brewer wanted everybody in their lab due to an inspecting team of generals, undersecretaries & what-nots, visiting

Journal

July 31, 1962 Pt. Barrow;

the lab. Never did see them. Of course, we didn't go to Wainwright today but maybe tomorrow. Rain a couple of times today with occasional breezes. Very nice night, no breeze, most of cloudiness gone.

August 1, 1962, Pt. Barrow;

Sullivan is supposed to leave for Wainwright, and I'm going, to learn where the lines are and help set traps. I've left an outline of the things for Mullen, to be able to keep the sequence of work going. It doesn't look now, since it is after lunch, that we will be able to go to Wainwright until at least this evening. I've already done the temperature fluctuation experiment animals. Dave helped in the colony when we replaced the rotating breeders with two new (Vagina open) females. Cool night but clear. Mullen & Hines went to the Point hunting ducks. Sullivan & I waited around but no flight.

August 2, 1962, Pt. Barrow;

I again set up a procedure sheet for Mullen to follow ~~in~~ in case Sullivan and I should go to Wainwright. I checked the colonies and got a lamp for the "big" colony including a multiple plug.

We left for Wainwright by 1015 arriving there at 11:15 Very good flying weather there. Saw ~~[illegible]~~ Caribou (couple of hundred) and many dead walrus & seals along the shore.

Journal

August 2, 1962, Wainwright, Liz III;

Put our gear in a quonset and had some coffee. Took all four packs out toward lines I & II. Caught a live juvenile lemming there. Mosquitos weren't bad near I & II, but were very numerous around III & IV and in the area between the two pair of lines. There was standing water in between almost all polygons. Went back out after dinner to look for live Dicrostonyx. Nothing moved except mosquitos. Did collect a nestling of perhaps a Red-throated Loon; at least it is a loon. Some sprinkling of rain.

August 3, 1962, Wainwright, Liz III;

Sullivan checked traps while I looked for live Dicrostonyx. I couldn't find anything after two and a half hours of mosquitos. Came back in. Sullivan in a little later with trap specimens. Caught 44 lemmings, only one of which is Dicrostonyx. We wrapped them & put them in the freezer. I called ARL & Dave Mullen to send another hundred paper sacks via the pilot. Pilot with one of Dr. Bohnsack's crew arrived just after lunch to take me back. Returned in time to help Dave with the colony.

August 4, 1962, Pt. Barrow, Alaska;

After checking colony, went blood sampling with Dave. We checked the Beach Ridge but could not find any sign. Came back into the barrel area and in about three hours, collected only 5 lemmings. Dave collected some birds, including Bairds', Western and Semipalmated Sandpipers. A little

Journal

August 4, Pt. Barrow;

rain came intermittently, but still a pleasant day. Hines left for Pitt Point with Rex Pieper this morning. Pieper will return with the pilot. Helped Mullen with the blood processing. Didn't start on the colony until after dinner. Worked on it until nearly midnight. Dave helped some for an hour or I would have been longer.

August 5, Pt. Barrow;

Didn't start in colony until after 1300. Spent entire day there trying to do so many extra things. Three litters had to be pulled and put in separate cages, but only half a litter to a cage. Two of these litters will be used for an experiment for Schultz. I got a barrel of sawdust yesterday so while all animals were weighed, all the cages were changed. Dave wants to go blood sampling tomorrow morning.

August 6, Pt. Barrow;

Changed all thermographs, checked for water bottle failures, did the work on the temperature fluctuation animals and worked out a procedure for colony work today before Dave arrived. He decided not to go blood sampling, too many other things to do. We divided two litters into equal (or nearly as equal as possible) weights, four to a deep cage. Gave one half of the litter ~~~~ fertilized grass from Pieper's fertilizer plot and the other half unfertilized grass from the control plot. This was done to two litters and both put in the small wanigan. Two more acceptable females replaced the two in the

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August 6, Pt. Barrow;
rotating breeder's cage. Two animals were set up on a specific type of grass. One was on Dupontia and the other on Petricides. These will be fed this today & tomorrow. Tomorrow, both will be sacrificed for blood and stomach contents. These stomach contents, along with others to be run on the other grasses around here, will serve as criteria for Mullen to compare with animals caught this winter. By comparison, we may be able to tell what the lemmings are eating this winter. Sullivan came back today from Wainwright. He set out lines I, II, IX & X. This is the start of the third running. A very dense fog rolled in this afternoon blocking the big planes from coming down. It cleared later in the afternoon, came back even thicker this evening. It rained for a few minutes about 2100 and then cleared abruptly into a windless, high cloud~~less~~ night.

Aug 7. Aug. 7 Pt. Barrow, Alaska;

Started on colony in the morning. Starting the work for Pieper. Interrupted by Dave who wanted to sacrifice some lemmings for their blood and particularly some who had been fed the special grasses. We started processing the blood ~~but~~ when Ted Humphrey came to tell Dave that the Peters Lake flight was ready. Dave had decided to go with Holmes and Rick Ashley, Dr. Bohnsack's assistant. Dave made them wait while we finished the blood processing. Finished the colony that afternoon. Very overcast night with fog settling in.

Journal

Aug 8 ~~Pt.~~ Pt. Barrow, Alaska;

Hines got in early this morning. Went right to bed. He and the pilot had to land at POW A last night due to the fog. I started the colony early that morning. Sullivan checked lines I, II, IX & X by himself. Hines wanted to be awakened when we went to set lines III A, B & IV A, B, but we didn't. He had been up all night so we set them ourselves. Finished the colony that afternoon and helped Sullivan check lines I, II, IX & X. Overcast day but only slightly cool.

Aug 9. Pt. Barrow, Alaska;

Started the colony and then got some help from John Hines. This was an exchange basis. He helped me in the morning and then I would help him and Sullivan that afternoon moving the trap stakes on VII & VIII. Moving the stakes about 30 ft. to the south put the stakes in much better terrain. That evening we pulled in lines I, II, IX & X. There was some brief showers later this evening.

Aug 10, Pt. Barrow, Alaska;

Got some help from Sullivan in helping me with the colony this morning. Later Pieper, Sullivan, Hines & I went out to central marsh, John Hines & I to set lines I, II, VII & VIII, and Sullivan & Pieper to build exclosures at the fertilizer plot. Finished colony that evening.

Journal

Aug 11. Pt, Barrow, Alaska;

Mullen, Holmes and an airforce man returned from Lake Peters this morning. Worked on colony nearly all day. Went with Sullivan + Hines to check line V, VI, VII, VIII and pick up lines III A, B & IV A, B. I put the weasel in too deep a hole and we slipped a track. They walked on out to the lines in central Marsh while I went back and got another weasel. We checked those lines, checked line traps and then picked up III A, B & IV A, B. Very foggy in central Marsh, visibility about 1/4 mile. Came back and I finished the colony work.

Aug 12. Dave was at the colony the same time I was to get some blood samples from the colony. We took the blood and processed the blood. Before I could start the colony, Dave told me Hine & I could go to Lake Peters right away. We left about 1100. Charles Edwardson went with us; Zimmerman was the pilot. Tried to find a boatfull of Eskimoes at the Ikpikpuk to drop a bagful of supplies but couldn't find them. arrived at Lake Peters about 2100 or so. Very clear night there, a few clouds and almost no wind.

Aug 13 Lake Peters, Alaska;

Those already present at Peters were Karl Stone, Bob Murphy and an Air force man along with Pete Sovalik. All left with Zimmerman except Sovalik. The four of us remaining left in the outboard to go fishing and drop Pete off along the shore to try to trap Marmots. Later we dropped Charlie off to find and join Pete. Hines

Journal

Aug 13 Lake Peters

and I caught several char, enough for a fish dinner for the four of us. Very good weather, sunshine, few clouds and breezy at times. Saw a few new species of birds including Northern Shrike, Rock Ptarmigan, Water Pipit, Wheatear and others more common to Barrow, such as, Artic Tern, Brant and Parasitic Jaeger. ~~Upon returns~~ after dinner, we set out the six line traps we had brought for Microtus.

Aug 14 Lake Peters, Alaska;

Pete & Charlie left in the outboard to hunt marmots. John & I rowed across the lake to climb the mountains looking for Sheep. John had his telephoto lens to get as many sheep as possible. Had very good luck along with some very good shots. Pete & Charlie not back yet when we arrived at camp at 1600. We walked along the fans looking for microtus. I had already caught one just outside the cook house. Not sure as to species. Bob Murphy came in at this time. He decided to stay the night here. Charlie, John & I went fishing again at Lake Schrader, north of Lake Peters. Caught two fish, one a 30" lake trout I caught. Biggest fish I ever caught in fresh water! Charlie caught another Microtus there at Lake Schrader. Our line traps this morning had been set off by squirrels. New birds seen today were rosy finches, Golden Eagle, Tree sparrow,

Journal

Aug 15, Lake Peters, Alaska;
Another beautiful day. We left about 0900 for home. Hit a fog bank lateral to Cape Simpson and had to set down at Ikravik waiting for the fog to clear at Barrow. Waited about an hour and then went in.

Aug 15, Barrow, Alaska;
As we got off the plane, Ted told us we had an hour before we would leave for the Inaru. We rushed around but the flight was cancelled. I worked on the colony the rest of the afternoon. An eastern wind was blowing all day.

Aug 16, Barrow, Alaska;
Got out my data sheets to start the colony but Ted told me to get ready to leave for the Inaru in 20 minutes. Helped him fuel the float plane. Flight was postponed until later after lunch. Worked on the colony until lunch. Murphy took Gil _ ..... , one of Bohonsack's assistants and me in first. I set one line of traps while Gil sampled for insects. Hines, along with Mullen, came in about 45 minutes later. After they left, Hines and I set up camp, then put out the three remaining lines. Started to rain when we were finishing the last line. Plenty of Caribou around, counted about 20 already. Raining continually, stopping about 2300.

Journal

Aug 17, 1962, Inaru River, Alaska;

After a false start earlier this morning, we came in after lunch with the first load of camp equipment and one pack of traps. The "we" were - pilot, Bob Murphy, Gil Chaillet, (Bohnsack's assistant to sample area for insects), and myself.

I started setting line IV and was finished when the second load came with Hines and Muller aboard. Dave came just to look around and returned immediately.

Hines & I decided to set up camp first which was fortunate because it was raining before we finished setting the lines.

It rained until nearly midnight and then just the wind blew. The area is soggy and the vegetation as lush as Barrow if not more so. Of course the dwarf willow adds more foliage to the tops of many polygons allowing an impression of greater greenness.

Aug 18, 1962 Inaru River, Alaska;

We checked lines first thing and after breakfast left to look at the fish camp about a mile east of our camp. I tried to photograph some caribou that were on our side of the river but couldn't get close enough. This day we counted over fifty by searching the entire horizon. We returned, read, had a snack, checked traps, and read until it was too dark.

Journal

Aug 19, 1962, Inaru River, Alaska;

Very chilly this morning with a strong wind from the east. Checked traps early and did some initial straightening up of the gear. Picked up traps about 1500 and started taking down everything except the tent. Spotted float plane about 1630 coming in. It landed at the fish camp and then took off and went back to Barrow. We're stuck here for the night, at least!

Aug 20, 1962, Inaru River, Alaska;

Float plane arrived about 0930; we were back in Barrow by 1030. Rained hard for about 20 minutes at 0600.

Aug 20, 1962, Pt. Barrow, Alaska;

Amos attempted and made the Wien plane for Fairbanks with Sullivan. Maybe, we hope, he made the rest of his connections home. We stopped the Schultz experiment on Carex & Eriophorum angustifolium and the fertilized vs control Grass experiments. Finished the colony work after helping Dave process some blood taken from a dying animal and [illegible] from a Carex & E. angustifolium animals.

Aug 21, 1962, Pt. Barrow, Alaska;

Worked on colony until Dave arrived at 1030. He was supposed to go to the Juneau meeting on the R4-D. He & I went over the work to be done in the colony until lunch. I was able to finish only the first phases of the revamping of the colonies. They need to be set up for

Journal

Aug 21, 1962, Pt. Barrow;

the winter. about a dozen will be sacrificed upon Dave's return for blood.

Aug 22, 1962, Pt. Barrow, Alaska;

Started on colony the first thing setting up the different phases as completely as possible. New breeders were put together; a certain number were put on data, while other are receiving food and water ad libitum. The ones on data (12) will be used for blood and maybe the stomach contents if fed a certain grass. One Microtus sp. was dead in cage but others are doing well.

We recorded the first good snowfall; none of it stuck, but the temp. never went above 40°. The evening, comparatively, seemed very mild but was still below 40°. Perhaps I missed it earlier but it was dark last night starting about 2300. I don't know when the sunrise came.

Aug 23, 1962, Pt. Barrow, Alaska;

Started on colony early in morning. Finished most of it by noon. Routine work plus cleaning out some breeding cages. Temp climbed above 40° for most of day. A couple of times, there was drizzles and dark clouds are present, but nothing.

Aug 24, 1962, Pt. Barrow, Alaska;

Finished routine work in colony early and started straightening things around the lab.. Went to the Point, or rather toward the Point. I was with Holmes and Del Shirley, a grad student from U.S.C working for Dr. Moore.

Journal

Aug 24, 1962, Pt. Barrow, Alaska;

Dick cut back into the areas by the ponds to observe the flocks of phalaropes, a few Dunlin, Sanderlings, western sandpipers and a few Dowitchers. We stuck in some mud and lost an hour and a half trying to get out, finally with success. Didn't make it to the Point.

Overcast day with a strong wind from the east. Temp. is around the low forties.

Aug 25, 1962, Pt. Barrow, Alaska;

Wind started from NW, then came in strong from the west. Temp. was about 41°F in the morning and then climbed more (a two degrees) as the day became very mild. I did the routine work in the colony, cut more arctofila for the microtus and then did some packing.

Holmes is scheduled to leave Tuesday, the 28th and I will go on the 29th, with Pieper.

Aug 26, 1962, Pt. Barrow, Alaska;

Overcast day with some drizzles and a constant wind from the west. Temp. stayed around 40°. Worked in the colony most of the day with the routine work. Dick & Gil Challet went to Gull Lake about 1430 and returned about 2130.

Aug 27, 1962, Pt. Barrow, Alaska;

Overcast day with rain starting hard about 1600 Wind from West all day. Did part of the routine colony work and started setting up the blood gear for Dave. Dave arrived about 1030 and we sampled

Aug 27, 1962, Pt Barrow, Alaska;

10 animals, five ♂ & five ♀. Started to process the blood after lunch. Worked until dinner. I finished the colony right after dinner and then helped Dave finish the rest of the blood work.

Aug 28, 1962, Pt. Barrow, Alaska;

I did routine work in the colony until Dave arrived and we finished sampling some animals. Processed the blood right after lunch. Dick left today.

D. Stevens

Journal

1963
11 June

Barrow, Alaska

On the 10th of June, Dave Mullen told me to start the colony (lemming) when I wanted and to arrange it nearly as before, in the new animal colony house. Today at 8 AM., Steve Logsdon and I started moving equipment into the house in an empty lab. John Beck showed up just as we were finishing & raised hell about the lab colonies being unfinished and that we were jumping the gun. I explained rather inadequately and to no avail anyway, but we didn't have to remove our equipment. We still have to add more materials yet. At 0900 Steve & I went with R.T. Holmes into the field for a look at the tundra. First stop was Beach ridge where most snow has melted. Saw one lemming dart under the snow. Snowy Owls, Pomarine Jaegers, longspurs, Pectoral sandpiper and calls of others were seen and heard. Flowers such as Buttercups on Beach ridge and Saxifrages on Gasline ridge. Permafrost on Beach ridge is down at least 5". Next stop was Gasline Ridge. Lines I and II are almost free from snow. Birds seen were Snowy Owls, Phalaropes, Snow Bunting, Baird's Sandpipers, Stellar's Eiders, White Front Goose, and Pectoral Sandpipers. Two lemmings were trapped under snow and taken by hand.

Journal

11 June 1963 One was a ♂ and the other a ♀. Both were adults. Testes were not extended down on the ♂ nor was any vaginal plug present on the ♀. Upon released of the ♂, it ~~~~ wandered through the grass until crossing a runway, which it followed to a temporary burrow and stayed. I put the ♀ in the same runway. The ♀ traveled to the same burrow occupied by the ♂. After a moment the ♂ left via the adjacent runway toward other cover. The ♀ waited a while longer, then followed suit. We left shortly after back to camp. A Golden Plover was seen by itself between Gasline Ridge & A.A.C.S. Large amounts of water are visible under the snow. Breeze from ocean was constant & cold. about 35°F in field. Ice on lakes starting to break up. Skies generally clear with a few clouds. Returned about 1100. After writing a few notes, Steve & I went across to the lab to See F.A. Pitelka, who had just ~~~~ flown in. After lunch, Frank suggested oiling & cleaning the live traps. Steve & I worked on this until ~~~~ 1530 Bob Rausch came in and talked with us until Frank & Dick ~~~~ returned from the field about 1700. The conversation among these people was very intriguing. A fog was starting to come in at this time but visibility up to a half

Journal

1963
11 June ~~1963~~ mile was still possible. Earlier, about 1100, Kenny Toovak brought in 10 live Lemmus from the Ivaru R. These were put in separate cages with food & water on the backporch of airology. Temperature after lunch was down to 28°F. This temp. stayed about the same through the rest of the afternoon into the evening. Nothing happened after dinner except a movie.

12 June Barrow, alaska

after breakfast, Steve & I cleaned off the tables & cabinets in airology until 0900. Frank and Dick left before 0900 to look at birds & census Frank's plot on Beach Ridge. Dave came in ~~at~~ just after their departure & recruited Steve and me to aid in blood sampling a little later in the morning. at 1000 the three of us left for the Barrel area. No lemmings were found until we uncovered 2 in the line of barrels parallel to Freshwater lake road. Returned to camp about 1100 and passed ~~onto~~ to the "little freeway" toward Voth's area. We entered the area between Family lagoon & the "Little Freeway" about 1/4 mi. from the ocean & searched for lemmings. Six were taken for blood samples; one was killed before a sample could be taken. Returned

1963 Journal

12 June a little after noon to meet Dick & Frank for lunch. After lunch Steve & I went to Vottis area to collect lemmings for the colony. Areas of cutting were spotty and only one Lemmus was taken by Steve in the area around Cakeeater. We circled in the weasel and walked around in the partially-covered (snow) area. No lemmings were taken nor seen. We returned to the area that had yielded six earlier that morning. One was taken next to the "Little Freeway" just before returning about 1600. I set up the 2 captured lemmings, added 2 Dicrostonyx and prepared a temporary colony sheet. After dinner I wrote notes & called it quits. The temp was 27°F before noon and reached 30°F by late afternoon. Overcast day with strong, icy winds and occasional mists.

13 June Barrow, Alaska

Cold winds still blowing from north. Slightly overcast day. The first job this morning was to move any of our equipment from the new animal colony due to necessary painting. Returned to water and feed the colony. Two lemmings had died in the temporary lemming colony on the backporch of airology. A little after 0930, Bill Jacobson, Steve and I went to

1963 Journal

13 June the area around line IX + X and Gasline Ridge to collect lemmings. We caught two near IX + X but none at Gasline Ridge. We returned by lunch time. I set the two additions up in the colony after lunch while Steve was oiling and baiting snaptraps. We baited 10 live traps and took them to the barrel area to be set. We returned and straightened up the "backyard" of airology. We finished oiling and baiting snaptraps. After dinner and the movie we wrote notes. Hank Childs came in today.

June 14 Barrow, Alaska

I fed and watered the small colony first and removed one dead lemming taken on the 13th. Hank + Steve started soaking some traps in linseed oil. I repaired as many of the broken snaptraps as possible and threw the rest away. After coffee time, Dave, Bill Jacobson, Hank, Steve + I went for blood samples and to collect lemmings. First stop was between the "little freeway" and Family Lagoon. No lemming was seen nor caught. The next two stops in Voth area by the Old cokeeater site and the area west of Voth area north of lines IV A, B, yielded nothing. Upon returning, one lemming was found near the road to the village. We went back to the Barrel area and found 4, 3 for blood

1963 Journal

14 June samples and a juvenile for the colony. Vothe Creek is flowing very fast. The day is mild, a few clouds and practically no wind in the morning. The wind picked up in the afternoon and died again in the evening. After lunch Hank, Steve and I went to collect lemmings at Birst Point. Large patches of snow are still present. After passing Beach Ridge, the area was intermittently very wet to moist. Phalaropes abound in this area, of course, but no lemmings. We crossed over to central marsh and went to a high spot near some old bird plots. Here we caught 8 lemmings in less than an hour. We returned home a little after 1500. They dropped me off to check the line traps for the second time today. Earlier this morning I caught two but one was dead. One more was taken in the afternoon. Very few juveniles are being taken, mostly subadults and adults. When I returned I set up the new animals on the back porch and went to dinner. After dinner I wrote notes and checked the line traps once more.

15 June Barrow, Alaska

After breakfast I checked the lemming colony and removed one dead lemming. Pitelka & I Talked over the things to do and what He

Journal

15 June had to speak to Max Brewer about. After everyone was in airology except Holmes, (who was at Ikroavik), we counted snap traps and found we were short. Muller arrived about 0900 and explained that he still had some in the field. After coffee we sampled lemmings for blood in the barrel area. Five were also brought back for the colony. We returned a little before noon. On the way out I cut through part of the Barrel area to check the livetraps. One was caught and another donated by Gil Challet from the same area. During lunch, Hank Childs and I were told our trip to Wainwright to set traps, (previously planned this morning) was scheduled for about 1400. Hank & I talked to Brewer until time to leave. The trip down was uneventful. Most snow gone, most ponds still iced.

15 June Wainwright (Liz III), Alaska

I showed Hank the lines and was able to set one line for him and drop the traps on the other before the plane came. The Eriophorum is starting to sprout. A few, rare patches of snow. Part of lines I and II with large amounts of water. No lemmings were seen moving. The station master related an instance of several lemmings moving about 1900 near the site a little earlier. Two pomarine jaegers and one Snowy Owl seen. Return flight uneventful. Arrived about 1745.

Journal

15 June Barrow, Alaska

After dinner I cleaned out one side of the "back porch" of airology. I also weighed the most recent lemmings taken and wrote a late sheet on each animal. The new animal colony is scheduled for use by Monday.

16 June Barrow, Alaska

After a comparatively late start I watered and fed the lemmings. One lemming was taken in the live traps. The 10 traps were moved further NE about 20 yds. Upon returning the new lemming was weighed and set up in the temporary colony the morning weather was mild with a slight breeze. continued thruout the day until about 1900 when it cooled off. Fog rolled in about 2130. I worked on materials for the new colony until about 1500 when I checked the live traps once more. None was caught in the live traps but one ♂ ad was taken by hand. For the first time this morning no lemmings died in the colony. the temperature in the colony was held fairly constant. at 1700, the lemming project people had dinner at the Mullens. After the movie I wrote notes.

Journal

17 June Barrow, Alaska

Steve checked the 10 live traps while I watered and fed the colony. I put in an order for more linseed oil and then wrote a data sheet on the lemming caught in the live traps. Max Brewer informed me at lunch that the colony won't be ready for another week. Steve and I cleaned some more in airology and baited snap-traps. About 1500 we set lines I + II on Gasline Ridge. We picked up the old winter traps set by Mullen and found 4 cases of Weasel (other?) activity in vicinity of snap-traps. One lemming was still whole in a winter trap and had been snagged by one foot. Fly larvae were already started. Returned about 1700. At 1930 a meeting was held for the objectives, personnel (distribution + utilization) and miscellaneous plans of the summer. Meeting was very informative and stimulating! I ran live traps about 2230, finding 2 in traps which were weighed and data sheets started.

18 June Barrow, Alaska,

At 0800, Steve and I took Pitelka to his census plot on Beach Ridge and left him while we went to check trap lines I & II. Six lemmings and one ♂ Longspur were taken. We returned about 0930. Worked on colony until 1130. Returned to pick Pitelka at Beach Ridge. After lunch, processing of lemmings began with Steve and me aiding Pitelka. Became too complicated

Journal

18 June so that I worked on the colony while Steve wrote the data. About 1500 I started helping Dave who was removing tissues ~~and~~ from the processed lemmings. Stopped about 1700. After dinner, Steve and I checked snap traps. I checked the live traps on the return as I had earlier this morning (1 taken) and found none. Upon returning I & wrote the data for lemming processing. I started the heater and another thermograph in the colony.

19 June Barrow, Alaska

Checked live traps early this morning and found nothing. Weather is foggy with a cold wind; very miserable. I worked on arranging the colony better and then started routine work on the lemmings. Food and water consumption data was begun. Weights were taken and all sawdust was changed. Worked in the colony until 1330. Helped process lemmings from Traplines I + II and then some from an earlier mass sample. After dinner was a movie followed by a running of live trap about 2130. Nothing caught. Wrote notes & quit.

20 June Barrow, Alaska

Checked live traps and having no catch, moved them about 20 yards north east on a parallel basis. Returned and saw Dave about making up more data sheets for myself and Schultz's project. Obtained routine data from the colony until noon

Journal

20 June Steve Holland, an assistant to Dr. Schultz, who will be aiding me in the colony work, came over to be pre-indoctrinated in how we maintain a lemming colony. I made a list for equipment needed and that on hand for tomorrow's move to the new colony. Hank Childs & I wired the jaws of the processed lemmings to be used as carcasses in a winter experiment contrived by Mullen. Brought in the traps from lines I & II after the move. No lemmings were caught. I checked the live traps and caught nothing. Birds are very active in the Barrel area although few, but Longspurs & Snow Buntings, are nesting. A clear day with a cold wind from the N.E.. the sun was very bright at 2100. Difficult to drive the weasel due to glare.

21 June Barrow, Alaska

With the aid of Steve Logsdon & Steve Holland, the temporary colony was moved to the new animal house. Temperature was regulated and routine data was taken. Holland is enthused over his share of responsibility. About noon, Dave & Steve Logsdon returned from blood sampling with three new lemmings for the colony. One was pregnant, one other with a litter of seven and the last a male subadult. Another litter was found after the mother had been already used

Journal

21 June for a blood sample. This litter was destined to die so 3 were added to the other mother's litter since they were of about the same age. Their average age is about 4-5 days. The foster mother accepted the new ones without incident. After lunch, Hank Childs, Steve Logsdon and I went lemming hunting for the colony. Only one lemming was taken after 3½ hours. 3 jaeger nests were found, (2 eggs each) 1 pectoral nest with 4 eggs, 1 Longspur nest w/ 3 young, 1 Snow-bunting nest with 7 eggs and other Phalarope nests were apparent but not studied as to their contents. Two Brant's geese and a Stellar's Eider were taken. After dinner I set up data sheets on the new animals including fresh grass for the mothers. Notes were written after. Cold, windy, clear day with the fog starting to roll in from the north about 1700. Line traps were checked morning and evening with no catches recorded. Areas are draining and drying rapidly.

22 June Barrow, Alaska

Routine work began in animal house. Grass was cut for pregnant females & those with litters. Talked over experiment for use of metabolic cages with Dr. Schultz. Started 3 adults on new formula from Dr. Schultz to test whether lemmings will eat it and what effects it will have on them.

Journal

22 June After lunch Dave + Hank returned with 6 new animals including one with a litter of two. These were put in the colony and data sheets started. Helped Dave process blood samples taken earlier this morning. Before dinner I analyzed the data sheets to compare age and sex ratio of males to females in the colony. There are no subadult males and only one juvenile-subadult male compared to several female subadults. This is in accordance with the mass sampling done by Pitelka this year. While clipping fresh grass for the pregnant females and mothers, a Longspur nest was found with 4 young. These were several days old and one newly hatched. After dinner, I helped Lofton and Childs set lines IX & X

23 June Barrow, Alaska
Got a late start due to big party the night before. Steve Holland was already working on the colony when I arrived about 1000. I clipped grass for the mothers. Found a Semipalmated Sandpiper nest with 4 eggs on the other side of the waterline before the explosives shack. After lunch I wired lemming skulls for Muller's carcass experiment until 1600. Cleaned up the laboratory (avilogy) until 1630.

24 June Barrow, Alaska
When Pitelka arrived, I helped process part of another mass sample until coffee break. Steve Holland started the colony data I checked his work about 1000 and found that he was coming along all right. The lemmings on Schultz' diet

Journal

24 June were in bad shape. I asked Mullen about it. He suggested taking weights. After doing so, I notified Mullen and Schultz that these 3 experimental animals ~~were~~ had ~~losing~~ lost 14-17 grams. After lunch, I talked over the use of the metabolic cages. About 1600, Logston and I set lines V & VI. After dinner, I picked through a sod sample for Dick while doing my washing. Mullen came by and initiated a conversation with Pitelka about his publication that became very interesting. Wrote notes.

25 June Barrow, Alaska

Steve Holland and I recorded routine data and weights in the lemming colony until noon. Steve Logston brought in a pregnant female which was started on data. I talked to Dr. Schultz about the metabolic cage experiments to be run. Clipped some fresh grass for the pregnant ones and those with litters. Steve and I started modifying the metabolic cages to start the Schultz experiments. Dave brought in 6 new females which were started on grass as these are assumed pregnant. After dinner I picked up lines IX + X while Steve checked V + VI. Only Longspurs were taken. A heavy fog rolled in over the airport and Base main. Mist was heavy over most of the area. Wind from the east continued.

26 June Barrow, Alaska

Steve Holland and I took routine data until 0730. I had also clipped grass for the pregnant ones and the

Journal

26 June mothers. after coffee, Hank Childs, Dave Mullen and I went to the area around the Duck Camp to collect lemmings for the colony. We collected nine and returned at lunchtime. Dr. Schultz left for Berkeley today. I set up data sheets on the nine new animals and then worked on the metabolic cages. A very mild day with a wind from the east until 1300. At this time clouds rolled in along with the constant wind. By 1700 a fog lay over the coast hiding ~~III~~ Pass Main from ARL. I checked traps (V+VI) at 1500 yielding a ♀ Dicrostonyx and a ♂ Longspur. Wrote notes.

27 June Barrow, Alaska.

Checked lines V+VI. Found one ♂ Lemmus and one ♂ Longspur. Found nothing in the line traps. While checking the line traps, a ♀ adult (pregnant) was caught. Returned and wrote the catches in the trapbook. Started the new ♀ on data and helped Steve Holland on the routine work until noon. After lunch we worked on the metabolic cages and then put 6 predetermined animals into the cages. These are to be given lab chow for 4 days until a diet of a single species of grass will start. A powder form of the Schultz special diet without the binding agent was put with a ♂ Adult to see if it will be eaten. A ♀ with a litter of 8 killed all but one and injured this one so that it was dying. After the movie, about 2100, Hank and I picked up lines V+VI. No catch was made. Very windy & cold with some fog all day.

[illegible]

[illegible]

[illegible]

[illegible]

Journal

28 June Barrow, Alaska

Today is overcast with the cold wind still blowing from the east. Some mist started in the evening from a heavy fog which cut visibility to 500 yds. I worked in the lemming colony until noon weighing the animals, adding grass to the pregnant ones and mothers, changing the ones in the metabolic cages. Steve Holland suggested a practical change in the wire gauge of the metabolic cages. By his method, the feces may be completely eliminated from mixing with the urine. All metabolic animals survived but are losing weight (small.) The animal eating the Schultz diet without the binding agent is doing fair. Difficult to tell whether any significant changes are evident. After lunch I talked with Dave Mullen about some problems in the colony. Hank Childs, Pitelka and I set lines III A, B & IV A, B. A Red Backed nest with 4 eggs was found and staked near 0.0 on III A. A pectoral nest is between III A, B but wasn't located. A Golden Plover nest is on III B. IV A, B are as well drained as they ever will be. Returned about 1700. Hank is not feeling well because of his leg.. Mr + Mrs. Wm. Steere came in today.

29 June Barrow, Alaska

Checked traplines III A, B & IV A, B. Only one lemming was taken. Clear day with ~~one~~ wind from east but not as cold as yesterday. Returned to help Steve Holland with the rest of the colony work. Efficient methods

Journal

29 June of utilizing the metabolic cages have been established. After lunch, Director Brewer asked "nicely" if someone would conduct some amateur ornithologists over the tundra. Mr & Mrs. Wm. Strikling came over about 1330 with Max. Had difficulty in obtaining a weasel. Mullen returned with his & came along since he was returning to collect a Drake Spectacled Eider near AACS. The 5 of us, including Childs left about 1500. Dave collected the Spectacled on the way out and then we headed for central marsh. Two lemmings were caught, but one was injured during capture and died later. Returned about 1730, Took the two lemmings to the animal house for food & water. After dinner checked traplines. A slight fog started moving in about 1700 but stayed along the coast. Rick Ashley caught a least Weasel in the Barrel Area. It was taken to Avialogy for us but escaped within our lab. I set 4 live traps with lemming carcasses for bait. It was caught within an hour. It will be preserved as a skin. About 2200 I checked the lemming colony and gave some food to a lemming on a special diet.

30 June Barrow, Alaska

Checked traplines III A,B, and IV A,B. Returned and helped Steve Holland finish the colony work. Wrote some notes after lunch and then skinned a lemming. After dinner, Steve Logston and I checked lines again. It had started to rain lightly about 1700. It rained

Journal

30 June lightly while checking traps & had set off a few traps. Nothing was caught. After the movie I checked the colony and retired.

1 July Barrow, Alaska

Checked lines III A, B & IV A, B with Steve Logston. Quite a few were set off from the night's rain. No catch. The wind is blowing from the West. The ice pack won't be here much longer. Pitelka left for Berkeley today. I helped Holland finish the weighing in the colony which took us until about 1400. I put in a requisition for woodshavings and then wrote notes on the colony. The papers for transferring my salary to Schultz's payroll came in the mail. After dinner, Glenn Stanley & Steve Holland helped Logston & me collect traps on lines III A, B & IV A, B. On IV A, B, a Phalarope & Pectoral were taken.

2 July Barrow, Alaska.

First job this morning was to pick up the woodshavings. I dyed some more tablets of Schultz' special diet for the experimental animal. Childs, Logston & I discussed the rationing of responsibilities for summer's work. Returned to colony to finish work. After lunch I finished the papers from Schultz except for the oath which needs a Notary Public. Logston and I set lines XIII & XIV about 1600. It took longer to travel to the lines due to ~~the~~ Wohlschlag Slough being higher than usual. After the movie we set lines VII & VIII. Wrote notes and retired.

3 July Barrow, Alaska

I planned on working in the colony all day, doing routine

Journal

3 July Work and straightening out things for future experiments. Steve Holland left about 1000 for Voth area to cut grass for a metabolic experiment. Steve Logston WALKED IN from Wohlschlag Slough and checked line VII + VIII. He had flooded out the engine in the slough. Thusly, lines XIII + XIV were not checked until after lunch when Steve + I took another weasel back out there. Bob Lewellen loaned us a steel cable to tow the weasel back in. First we checked lines XIII + XIV finding nothing in the traps. Took an hour to tow the weasel in. Upon returning I talked to Dave about some of the colony work. Wrote some notes until dinner time. Very warm day. Wind almost nil. Remain'd warm until late evening when a drizzle started. Many insects hatched. After dinner I put up a Least Weasel.

* 4 July * Barrow, Alaska

Steve Holland & I worked in the colony until 1130. The metabolic experiment with Dupontia is well under way. Wrote notes after lunch. It had been overcast and drizzling all day with a slight wind from the east. The temp. stayed around 35° F or less all day. About 1500 we received a load of 14 live lemmings from the village. With the help of Logston & Child, I put these in the colony and started food + water. Six are juveniles - Our group went to the Mullen's for dinner, after which we were scheduled to go to the village. However about 1700, it started to snow lightly and continued until 0200 the following morning. Traps could not be checked.

Journal

5 July Barrow, Alaska

Steve Holland + I finished the colony work by 1030, three adults from yesterday's delivery died. All 6 juveniles lived. About 1130, Steve + I picked up woodshavings from the shop. Worked on some notes for the colony. After lunch, I advised Holland in skinning a lemming and then went with the Holmes to collect birds and check nests in Britton's area. After dinner, since all the snow (95%) had melted off, Engstrom + I picked up lines VII + VIII and XIII + XIV. These lines are practically completely under water. The wind came from the west for awhile but almost completely stopped in the evening.

6 July Barrow, Alaska

Routine colony work started by 0830 was finished by 1000. I talked, and mostly listened, to a discussion involving Childs and Mullen about the numbers of lemmings present. At 1030 Holland and I took the samples of urine and feces from the metabolic cages during this third day of the experiment involving Dupontia as the main diet. After lunch, Hank Childs + I staked out the second plot for live trapping and dumped the live traps. A very sunny day with a mild breeze from the east insured perfect weather for the evening softball game with the Eskimos. Picked up 5 new lemmings in the village before returning.

7 July Barrow, Alaska

Had a very late start. Steve Holland was already working in the colony when I arrived. I finished weighing

Journal

7 July the breeders, ~~[illegible]~~ took data from the metabolic cages, weighed in new juveniles and cleaned up. By this time, it was nearly 1700. I wrote notes and selected an animal for the metabolic cages to replace the one that died earlier. A bright sunny day with a fairly strong wind from the east. It has been decided that Childs & Mullen will partake of the first trip to the Inaru. Holmes would like me to join him in a trip to Ikroavik Lake day after tomorrow but I can't give an answer yet. Childs is anxious to start the line-trapping but the Inaru trip may foul things up.

8th July Barrow, Alaska

Strong, cold wind blowing from the east early this morning. A large lead in the ice pack occurred starting the eventual dissolution of the pack near shore. Steve Holland and I did routine colony work and then thoroughly cleaned the metabolic cages for the next experiment. We picked up some shavings about 1100 from the shop. The Inaru trip was postponed because of the Banks Island trip. Childs & Mullen are scheduled to go. Holmes wants very badly to go but has too much work to be gone for 4-5 days. The Inaru trip will be put off and then Mullen & Logston will be the stars while I help Hank set the line-plot in action and learn its function. ~~about~~ 2000 I collided knees with another fellow playing volleyball and probably will be gimpy for quite a while. Tomorrow I'm going to the

Journal

8 July village to have x-rays taken, this means I won't be able to go to Ikroavik with Dick. Everybody very sympathetic but Childs also laughed. At least I got mine during an "athletic" endeavor!

9 July Barrow, Alaska

Light sprinkles early this morning, then cold & windy the rest of the day. I helped Holland in the colony for as long as I could be of any real help. I returned to urology and put up a bird. Lousy job. Dick went to Ikroavik alone. Childs and Mullen were ready to go to Banks but won't go until tomorrow morning. I went into the village with Riley at 1400. Some Canadians from the Icebreaker, HMS Camsell came along. X-rays show only bruised knee. Good! Got back about 1630. Dick did all right (finding nests) at Ikroavik but plans to go again day after tomorrow. Clouds rolling in about 2100 and wind still blowing from east.

10 July Barrow, Alaska

Stayed in bed with heating pad until lunch. Went to colony after lunch to finish the work with Holland. I weighed in new animals brought by P. Sovalik from the village. I also had to weigh juveniles that I thought I had marked adequately (several are in one cage) and decide which was which. Childs & Mullen left for Banks Island right after 1200. I inquired once more about a notary public because the one in the village was on a camping trip. One N.P. was at Plew main to which I took this oath for the

Journal

10 July application to Schultz' Project. Cloudy, overcast day.
I received a letter from Schultz telling us to do the best we could with the powder form of his special diet as it could not be compressed. Other instructions were included for Rex Pieper. (PhD)

11 July Barrow, Alaska
Started on colony alone because Holland needed to aid Pieper in clipping grass plus obtaining Carex for the next step in the metabolic cage experiment. Cloudy day with intermittent light showers. Three deaths in the colony plus four new ones brought in. Holland helped me finish up after lunch. I requisitioned more woodshavings and asked about the other lab in the animal colony in relation to its availability for our project. I worked "proportioning weights of the lemmings in the colony into adequate groups to be used for Schultz special diet but there are not enough lemmings yet, either juvenile nor adults.

12 July Barrow, Alaska
Started regular work in the colony with Steve Holland. One of the metabolic experimental animals died, so the part with Carex will also be run with 5 animals. Very windy, coming from east. A fog and drizzle started about 1700. I talked with Brewer after lunch about the new lab colony room we are going to use and about the use of the colony in general. We came to an understanding. I looked along the immediate coastline for invertebrates but others had picked it clean already, Checked colony and

Journal

12 July Changed a few things around. Went over data sheets and wrote notes for the colony. Also selected some animals to be used in the breeding cages. I'm not sure whether breeding for more litters will be of any value now. Tomorrow I'm going to Ikroavik with Dick if the weather is good. Logston has been instructed to help Holland for a couple of hours in the colony: Skinned a bird after dinner & wrote notes.

13 July Barrow, Alaska

I went with Holmes at 0800 to Ikroavik to census his plot. The colony was left in the able hands of Steve Holland. Steve Logston helped him until 0930. Bright, sunny day but the wind is fairly cold. Not very much activity on the plot. A few (7?) were located. Two lemmings were seen on the 80 acres. Insects (adults) are very numerous but only the midges were flying. Some bumblebees and a few flies soared by often. We returned about 1630. Hank Childs + ?. [illegible] returned from [illegible] about [illegible]. Mahr doing all right but is in bad spot for studying animals if there are any more than those he has found already. Very desolate place.

14 July Bmow, Alaska

After a start at about 0900, Holland and I worked until 1100 in the colony on routine work. We worked on a plan for feeding powder to lemmings (special diet) in the metabolic cages. It was necessary to postpone work on the metabolic cages to wait for a 24 hour period, after lunch the metabolic cag

Journal

14 July were taken care of and the place was cleaned up. Mullen came in as we were finishing and we talked about the colony for awhile. Another bright & sunny day with a fair wind but not cold. Brewer told us of an Italian correspondent from our State dept. who wanted to interview the lemming people. Hank & Dave talked to him about the cycle & centres situations. Each of us added something personal when asked why we were here and how we liked it. A partial language barrier plus preconceived ideas made explanations rather difficult at times. Walt Disney was shot down several times. I hope it was of some value.

15 July Barrow, Alaska

A bright and clear day in the morning but becoming very cold (due to the wind) in the afternoon. I worked with Steve Holland in the colony until 0930 on the routine data. After coffee, Hank Childs, Steve Logston & I went to the line plots to set the traps. We finished about 1215 and had to run for lunch. Some are difficult to set because the recent linseed oil "dunking" gummed the treadles. After lunch, Holland & I worked on the metabolic cage experiment until 1430. The 3 of us returned to the line plot again to mark the traps on a grid map. We returned about 1700 after having to walk part-way in because a bogey wheel broke (Childs was driving) Holmes picked us up at AACS building. After dinner, Logston was sent with Glenn Stanley and Steve Holland (Volunteered!) to set lines XI & XII

Journal

15 July. they mixed themselves up and got on the east end of IV 7, B and set these instead. After Lagston returned, I took Hank to the line plot so he could stay the night in the wanigan there. A fog was in at this time and a cold wind was continuing. I wrote notes and hit the hay.

16 July. Barrow, Alaska

Steve Holland and I worked in the colony until 1400. Today is weigh day which involves a large amount of time. We obtained a large amount of wood shavings and sawdust from the shop about 1030. The temp. this morning was about 27°F. It was drizzling off and on, and the water froze on the windows and steps. Hank Childs reported that he nearly froze his fanny off in the wanigan last night. He caught 3 lemmings on the line plots. One was caught twice and one juvenile died. Holmes found birds huddled on their nests and very few adult insects were seen. He took a grass sample (vacuum) later and did find some. I worked on the data sheets, comparing experiments in the metabolic cages grass experiments. A fog came in about 1700.

17 July Barrow, Alaska

Steve Holland and I started on the colony and worked until 1000. I worked on colony notes and bottled some insects I got from Holmes. Childs was picked up for lunch by ~~Hank~~ Lagston at 1130. Today is cool but not as much drizzle in air as yesterday. After lunch, Holland and I finished the metabolic cages

Journal

17 July and cleaned up. I wrote letters until 1630. I took Childs back to line plot about 2000. Weather changing. Wind is from the ocean and a fog, cutting visibility to ¼ mi rolled in. Mullen & Lagoton are scheduled for the Inaru tomorrow morning. Traplines IV A, B will have to come in tomorrow nite.

18 July Barrow, Alaska

The routine data on the lemmings was finished by 0930. After coffee, S. Holland and I went to the area around AACS to look for lemmings but none were caught. About 1115 we went to the line plot to pick up Hank and bring him in for lunch. The wind from the ocean is still blowing. Almost all the ice is gone from Fresh Water Lake. After lunch we did the metabolic cages and set up three new ones taken in from the village. Mullen & Lagoton left for the Inaru after lunch. I wrote notes until 1600. After dinner, Hank & I brought in lines IV A, B. A Pectoral and Phalarope thick were caught. Foggy after 1800. Visibility cut to ¼ miles.

19 July Barrow, Alaska

Colony work was started at 0830 with the use of a new animal scale. Today was weigh day and it came in handy. Speeds up activities a lot. Very nice day, temp in high 40's. Wind from S W is fair. After lunch, metabolic cages were processed. The animal on the special powder diet is hanging on but growing weaker. After coffee, Hank & I left about 1500 to set lines XI, XII and III A, B. We found XI & XII

Journal

19 July Too wet, so HEC decided to set I, II and IX + X. We caught 3 lemmings by Voth Slough, 2 ♂'s and 1 juv. The males killed the juvenile. Ran short of traps in line X. Returned about 2000 to finish it. Very nice night. I almost wanted to stay out and just sit.

20 July Barrow, Alaska

HEC., Holmes and I left for Ikroavik at 0800. We checked lines I, II and IX, X on the way. The solar eclipse was due for 1000. It was foggy by the gaswell, vision being only about 200 yards. Because of the fog, the light was filtered from the sun to our eyes. We got a good view of about 80–90% covering of the sun. Holmes banded some pectoral chicks in Footprint Lake. After reaching Ikroavik and Holmes' plot we censused the south part recording 3 new nests and some chicks which were banded. After lunch (1330) we censused the north part and then started back. It had started to cool off some and a fog could be seen over ARL inhibiting landing of Wien until 1600. We stopped by Holmes' insect sampling area and Holmes took sod samples. Near lines XI + XII, Childs found a dead Pomarine jaeger. We arrived home about 1630. Childs checked the lines tonight.

21 July Barrow, Alaska

Left at 0800 to check lines IX + X and I + II. Got back around 1000. Wind is from the east and many eiders are flying. Steve Holland and I did the routine work

25.
1963

Journal

21 July on the colony until lunch. After lunch, the metabolic cages were done. The animal on the special powder diet in the metabolic cage died. Powder was caked on the body. Food was still present. [crossed out] Today, a subadult will be put in the cage to see if it can adapt. This dead one may have been too far undernourished before entering the metabolic cage; therefore, the subadult, full of "vigah" may be able to adjust. After the movie, I checked the lines.

22 July. Barrow, Alaska

A weasel shortage caused three of us (groups) to combine our efforts into one weasel. Pieper, Stanley, D. Chablet, R. Ashley & I left about 0830 to the field. Pieper + Stanley went by AACS to sample grass. I dropped Chablet and Ashley by Beach Ridge and then went to check traps. I picked up Pieper + Stanley on the way in. Because of the lateness in leaving, the routine data in the lemming colony wasn't finished until after lunch. The metabolic cages were done after lunch. The subadult is in poor condition. It kicked all of its food from the can. After dinner, Steve Holland and Rick Ashley helped me bring in the trap lines. H.E.C. gave a seminar on the general ecology of the lemming. Mullen was supposed to supplement this but could not be picked up at the [illegible] because of poor weather. Intermittent fog banks hung over Barrow all day.

23 July. Barrow, Alaska.

Colony started about 0815. H.E.C. left about 8:21 for the [illegible] to pick up Mullen & Layton. At 0930, Holland + I

1963

Journal

23 July Worked up a schedule for the colony work through the rest of the summer. The animal in the powder diet died. We will try a gradual introduction to the diet & cage as a last resort. After lunch, the metabolic cages were done. At 1515, H.E.C., Fagstone & I left for the field. Hank was going to set the live traps while Fagston and I set XIII & XIV and V & VI. Wohlschlag Slough was too high and there wasn't time to go around, so we set V, VI, VII, VIII. We picked Hank up on the way back. We planned to set XIII & XIV anyway but it was rather sloppy weather so Fagston took Childs back to the live plot about 2130. The fog cut visibility to 100 yds. I wrote notes and went to bed.

24 July Barrow, Alaska

Routine colony work was begun at 0800. About 0830 J Beck came in & looked around. I asked him whether Brewer had said anything about the frame for the breeding cages but everything was negative. He promised to check on it. Our only litter brought off in the lab was taken away from its mother at 18 days of age. An attempt to file the teeth of a lemming as a means of identification to measure growth was unsuccessful. I will try a sharper instrument tomorrow. We decided to try a gradual change to powder in the metabolic cage. The animal will be fed lab chow powder, at first with small chunks, and later with pure powder. The food bin, which is a frozen juice can is placed on the side and another can (condensed milk)

1963
GS

Journal

24 July — has a door cut in it for the lemming to curl into, but will still allow feces & urine to fall through. We worked on the metabolic cages until I left at 1510 to set lines XIII & XIV w/ Lagston. Steve Holland ~~went~~ came along to clip grass for the next experiment. It has been foggy off and on with a beautiful night arriving. Tonight, there is no wind, no fog, and a bright sun. Central Marsh is very soft as is the road to the fertilizer plot. I put up a jaeger after dinner while HEC & Steve went to check lines ~~& snap traps~~ & livetraps.

25 July — Barrow, Alaska

Wind is blowing from the south for the first time this summer. Clear, warm day, averaging about 60°F all day. Holland and I weighed animals today along with routine data. After lunch, the metabolic cages were processed. Still having trouble changing an animal to powder food. H.E.C. says the Pitmegea flight is on. He is leaving tomorrow for Nome on the R4D and then to Cape Thompson. I will leave the 27th for the Pitmegea, drop the equipment, and go pick up Hank. About 1500 Holland & I cleaned up some extra animal cages that I put out in back of virology and placed them by the old animal house. Hank has one more day of live-trapping so I told him I would finish the last night since he has so much else to do. The south wind is bringing clouds. At 2100, [illegible] & I went to the live plot for a check and to [illegible] me

G. S.
1963

Journal

26 July once again of the situation. One recapture was found along with a couple of Longspur juveniles. During the night, light showers occurred. No catch, except for a few Longspurs, was recorded all night & the next morning.

26 July Barrow, Alaska

Steve Lopton, Rex Pieper & Glenn Stanley arrived at Beach Ridge about 1030 to pick me up. I checked to see how Steve Holland was doing and found him doing fine. The plumbing is finished in the animal house. After lunch, we worked the metabolic cages over and devised a better feeding trough for the powder experiment. It has been raining intermittently and the wind is from the west. Hank & Dave left for Nome after lunch. After dinner, Lopton, Stanley & I brought in 4 lines of traps & checked 2 more.

[margin note:] Checked the [illegible] plot again at 1500; no catch.

27 July Barrow, Alaska

Light showers continued all morning with a west wind blowing all day. Rain stopped in the late afternoon and a fog came in after dinner (1800). Holland and I worked the routine data through for the colony until about 1100. Wrote notes until lunch. Won't be able to fly to Pitmegea today; no plane, no pilot. Dave returned today from Nome. Hank was left at Cape Thompson. Metabolic cages and the special powder diet animal ~~[illegible]~~ were processed after lunch. Worked on data sheets and checked our camping equipment for the Pitmegea. After dinner, Lopton & I pulled in lines XIII & XIV. Fertilizer plot very mushy. No lemmings caught.

1963

Journal

28 July Barrow, Alaska

Showers continued today until mid-afternoon. Today was weighday in the colony. Holland & I worked until noon on the individual animals & then finished the metabolic animals and special powder animal until 1500. I probably won't leave until monday or tuesday (29th or 30th) because of the weather. It is also raining at Cape Thompson & vicinity. I would just as soon stay in that case. I decided to measure tooth growth without using a mark. Tooth growth is essentially unimpeded because of non-abrasive material in the lab chow. I worked on data sheets after dinner. If we can feed the special powder diet satisfactorily, we will try the large Schultz experiment with a smaller number of animals.

29 July Barrow, Alaska

Looks like a good day for flying. Ted Humphrey said there was a chance of leaving this afternoon. Steve Holland & I worked in the colony until 1030. Went to early chow at 1130. At 1145 Ted said to get my stuff. We left at 1230. Bob Murphy left me at the Pitmegea - Cape Sabine campsite about 1430, and went to pick up Childs at Cape Thompson. I set up camp part-way until they returned about 1530. Neither Childs nor I had seen any caribou between Barrow and the Pitmegea. We used the wooden floor Hank had built in his "earlier day" for our tent floor. We set out 2 lines of traps on 2 old traplines which still were

1963

Journal

29 July intact. Some stakes had been knocked down by the caribou but most were still standing. Evidently, thousands of caribou migrated through earlier. Sign everywhere shows the trampling effect. The tundra itself is dry although the river is very full for this time of year (H.C.) Hank noticed very few owl pellets on the ridges. Could be an indication of low numbers of microtines. After dinner, we walked to the ocean where the river empties. Hank said the reason for the river being so high is due to a sand bar across the mouth of the river acting as a plug. He collected a Godwit near the ocean. Wind changed from a northerly direction and started to blow from the south about 2000. It blew hard ~~all~~ during the night. About 2300, Hank saw a red fox across the river but it was gone before we could get off a shot. Camp site very well set up; ready to collect Gyrfalcons tomorrow.

30 July <u>Ptarmigan River - Cape Sabine, Alaska</u>

We checked lines first thing this morning but found only 2 <u>Microtus oeconomus</u>. River is very salty due to the ocean being backed up some way. Overcast and drizzling. Started to rain hard a few times but didn't. We decided to put off the Gyrfalcon hunt. I skinned the <u>Microtus</u> and read. The plug in the river must have been pulled because the river suddenly drained and the water is no longer salty. We can cross very easily in several spots now. The salmon are swimming upstream and can be easily seen

1963

Journal

31 July Pitmegea River - Cape Sabine Alaska

Hank checked traps this morning while I cleaned up the breakfast dishes and got the equipment ready for the Gyrfalcon hunt. We left around noon after Hank returned with 3 microtus and one Lemmus. The Gyrfalcon area is about 1½ miles upstream on a cliff overlooking the river. The young were already flying. There were either three juveniles and an adult or 4 juveniles. Hank took a couple of shots but couldn't get in good range. On a ridge leading to the Gyrfalcon area, a few owl pellets were found and also, plentiful amounts of weasel fecal material. This is similar to the ridge above the camp. The day turned very warm (high fifties) with a few scattered clouds. We returned via the river collecting a few birds. We got back to camp about 1430. The Salmon are moving upstream in greater numbers now. The gulls are harassing them constantly. I collected some soil samples and insects for Gil Challet. I still need to get a couple of more water samples for Yaap Kalff. We skinned some birds and mammals (microtus) after dinner. About 2200 we heard a bird making a racket (sounded like a jaeger) out in back, so I looked out to see. Some bird was diving at a cross fox on the hillside. Hank took 2 shots in the dim light but didn't hit it. I followed it for awhile but never got a good chance for a shot. It started to sprinkle about 2400, but it isn't cold.

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1963

Journal

1 August Pitmegea River - Cape Sabine, Alaska

After breakfast, we picked up the lines of traps, catching nothing. It is an overcast day with some drizzle occasionally. I walked across the river toward the ocean to obtain some water samples for Jaap Kalff from large ponds. On return, Hank caught a squirrel using the noose technique. I stuffed it a few minutes later. He also shot another, which he put up. We had lunch and started to wait for the "expected" plane. We had asked for a 1600 pickup. By 2030 the plane showed up. Bobby Fischer took our non-essentials to Liz A first and returned a half hour later for us. A short rainsquall worried us that he might not be able to return but he did. Barrow was fogged in some but the plane landed all right about 2330. We distributed our gear & hit the sack.

2 August Barrow, Alaska

Steve Holland and I did routine data after reviewing all that happened the past few days. Steve carried out the metabolic cage experiment concerning mixed tundra forage at different temperatures very well. Temperatures outside were in accord with the ones needed for the inside. After lunch we worked on the metabolic cages. I worked on some notes for the colony until dinner time. I met Dr. Spruget from N.S.F., who is here checking the persons working in their projects. Today was overcast with only a moderate off-shore wind. For the last few days of our absence, rain fell very heavily for one day and then

1963

Journal

2 August drizzled the rest. After lunch, we worked on the metabolic cages and then set up two breeder-pair in the other room. We decided not to wait for the special rack for the cage. Holmes is still at Banks Island. He left last Tuesday. The lab (aerology) was in top shape when we came home last night. Lupton had completely straightened everything up and cleaned thoroughly. Wrote notes after dinner.

3 August Barrow, Alaska

Today was weigh day in the colony. With nearly a hundred animals in the lab, weighing is becoming more grueling. May have to change into a 2 day weighing affair. After lunch, Holland had to help Piper with grass clipping so I finished off the metabolic cages. I also checked the breeders but could not find any sign of a vaginal plug. Both females were put in with open vaginas. Very cold wind from north, temperature around 35 °F in the morning.

4 August: Barrow, Alaska

Routine data started a little later than usual this morning (0430). Finished by 1100. My faithful assistant wanted to dig for artifacts after lunch, so after helping me for nearly an hour, I okayed the departure. He deserves more extra time for all the extra work he has put in recently. I finished the metabolic cages by 1500 and checked the breeders. One female has a plug, the other is slightly closed, so that she may have had a plug & lost it. Holmes

1963

Journal

4 Aug. got in last night. Enjoyed his trip immensely. Had snow flurries about 2000 but still about 40°F outside. Logston due to leave for Pitt Point tomorrow morning.

5 August Barrow, Alaska

With the new breakfast hours from 06:30 to 0730, I made a "supreme" effort to get there by 0645 and be writing some notes by 0700. It may never happen again. Holland and I started the colony by 0800 and finished by 0930. I looked at some slide of lemming stomach contents that had been of one species of forage. I was wondering if it were possible to pick up any gross difference between types. After lunch I worked the metabolic cages through in an hour and returned to Dave's lab to help him run through blood sugars. Logston & Stanley left for Pitt Point by 0900. Stanley should return tonight if possible. We worked on the blood until dinner and attended a seminar about radiation (solar) given by Bruce Locke. Overcast day with a slight drizzle and some fog around the airport until late in the afternoon. Hank is running the live plot.

6 August Barrow, Alaska

Worked on the animal colony until 1000 alone. Holland went to Ikroavik with Holmes for the morning. At 1400 I picked up Hank at the live plot. Upon returning I acquired some wood shavings from the shop. The tundra is very soggy due to the recent rains. After

YS

1963

Journal

6 Aug lunch, Hank helped me with the last half of the colony work. He was interested in what I did & how. The wind shifted from the east to the south to the west. This brought rain about 1430 and the wind increased to over 30 mph by 1700. I helped Dave for a half hour before dinner finishing some blood sugar analyses. John Johnson also went with Holmes to Ikroavik. He captured 9 lemmings there. This area seems to be possibly full of lemmings. Holmes states he has seen lemmings each time he has gone there.

7 Aug Barrow, Alaska

Holland and I started the colony by 0800 and finished all routine work except for a few by 1000. Holland had to leave to help Pitelka with clippings so I finished the routine work and cleaned. I set up new animals on data sheets and tried to give a lemming the special powder diet in a paste form. After the paste had dried some, the lemming did eat some but still needed a drink (a long one) to help wash down the food. When fresh powder in paste form was put in the cage, the lemming did not touch it. The last metabolic experiment was completely designed for its start tomorrow. Adequate numbers are ~~used~~ present to run the larger powder diet experiment but with 32 animals instead of 64. More powder is being ordered in case the experiment works and most animals survive. There is enough

YS

1963

Journal

7 Aug. powder diet of each type to start. The larger experiment will run 30 days ending Sept. 7. Keith Van Cleve? arrived today. Overcast day with almost constant drizzle. Wind increasing late at night but always from west. Never was very cold. Wrote notes after dinner and worked on the colony data sheets.

8 Aug. Barrow, Alaska

Holland and I processed the regular data until 0930 when I left to pick up Hank at the line plot. After returning, we set up the metabolic cages to run the last experiment w/ the special powder diet. After lunch I helped Dove process blood sugars until dinner time. Dick returned before lunch to tell Hank about a seal on the Tundra 200 yds± from Ukpik Slough, and a 1/4 mile from the ocean. They left to collect the animal & returned with it about 1430. Clear ~~[illegible]~~ sunny day with a light breeze from the west.

9 Aug. Barrow, Alaska

Usual colony work was not done. The Schultz special diet experiment involving 32 animals was set up and the rest of the animals given food ~~[illegible]~~ (lab chow) ad libitum. The powder will be given in a paste form. It will be weighed dry and then dried the next day, if it is not dry already, and then weighed again. Cold wind plus some occasional snow flurries are present. About 1400, Hank asked me to go to Wainwright to set

'78

1963

Journal

9 Aug traps. Glenn Stanley came along to collect grass samples. We left about 1500. On the trip, we saw 2 red foxes near the ocean beach about half-way down and many small groups of caribou after passing Liz C.

9 Aug. Wainwright, Alaska

Arrived at Wainwright about 1600. Hank & I carried the traps out while Glenn was sampling. It took about 1½ hours to set the 4 lines and walk back in. A 25 knot wind, cold & occasional snow flurries kept a person awake. We had dinner there and saw a movie before returning about 2030. It's very wet over this area. Most troughs are filled with water but lemming sign looked good. The forage is very lush. It only took 40 minutes to get back due to a strong west wind.

10 Aug Barrow, Alaska

I started the colony alone because Holland was helping Rex Pieper clip grass. Steve came in about 1300 to help. We spent the entire day in the colony quitting about 1700. Our procedures are set pretty well for the ensuing experiments.

11 Aug Barrow, Alaska

Colony work was finished early due to no weighing of animals, the ease of handling of the food and the reduced number of animals that need to be handled. The R4D went after Bill Maher taking along Rex Pieper,

JJS.

1963 Journal

11 Aug Glenn Stanley, Gil Challet and a few other boondogglers. Overcast day starting out cold (34°) and becoming warmer (40+) in the later afternoon. All the colony work was finished by 1530 which gave us part of a Sunday afternoon free. Wrote notes after dinner.

12 Aug. Barrow, Alaska

We developed a good & effective system for handling the special diet and weighing the animals. Most animals are holding their own weights while an equal number have either increased or decreased. Two have died from the same group. Overcast weather but warm (40°F) with practically no wind. The metabolic animals are showing signs of physical weakness. One is hemorrhaging from the anus. We finished by 1430, in time for me to help Logston set lines I, II and IX & X. A dense fog is settling in. By 2100 a heavy fog had drifted in. Hank Childs was supposed to return from Wainwright but couldn't be picked up. Dr. P. Hurd arrived today.

13 Aug. Barrow, Alaska

Holland & I worked in the colony until 1600. Three of the metabolic animals died and we needed to transfer some of the animals from the larger special diet experiment to the metabolic cages. Since these are already adapted to the powder, they may be able to overcome the sudden change to the metabolic cages. Max Britton arrived today.

YS

1963

Journal

13 Aug After finishing the colony, Holland & I went over the data sheets so I could write some comprehensive notes about the set-up. Very cold this morning (low of 33°) warming to over 45° by late evening. The R4D returned with Maher & company. Hank Childs not back yet.

14 Aug Barrow, Alaska

Colony work was at a minimum and Holland & I finished the morning half by 0930. No animals died. Helped Dave finish his blood sugars from 1960 along with some new ones. After lunch Holland & I cleaned up the metabolic cages. Miserable weather, with constant drizzle and 25 knot wind from the east. Maher's group has established itself in airology. Weather cleared by 1800 and the wind stopped. I worked on colony notes until dinner time.

15 Aug Barrow, Alaska

Holland had to clip samples today. Did the colony alone, which including the weighing, took the entire day. Wind blowing from the west fairly strong in the morning dying about 1100. Rex Piper left today. About a dozen of us went to the airport to see him off. Rained hard & soft constantly after 1300. Many animals on the powder diet are gaining weight. Our crude methods of evaluating food intake may be an aid as a pilot experiment. Traplines I, II and IX, X have to come in tonight. Childs plans to run a little

JS

1963

Journal

15 Aug experiment with lemmings and the sounds they make when coming in contact with each other. He plans to record all sounds emitted by different pairs or groups when placed in a box, plus observing all movements.

16 Aug. Barrow, Alaska

Wind blowing in from N.W, very cold, temp. around 33°F. Holland & I buzzed through the colony work. All animals doing fine. About to run out of control diet but ~~except~~ expect a shipment tomorrow or the following day. Traplines III A,B & IV A,B go out today. ~~Some~~ snow fell lightly but didn't stick. Temperature started climbing toward late afternoon & evening. After the metabolic cages were finished, Logsdon & I set out the traplines. Lines III A,B appear a little more wet than usual. A flock of Longspurs are in the area & will enhance trapping. Lines IV A,B are about the same, perhaps drier if anything. Logsdon threw a track on the return trip and we took a one-bounce off the little freeway to the side. No one hurt. Evening weather is becoming very pleasant while mornings are cold.

17 Aug. Barrow, Alaska

At 0715 snow was falling leaving large patches for a few hours. Wind blowing hard from the east bringing hail about 1200. Holland & I finished the morning work readily and I finished a letter to Pitelka before lunch. Metabolic experiments is going to be difficult to analyze

YS.

1953

Journal

17 Aug. for information: as animals die, they are replaced by one from the larger group of controlled diets and the experiment goes on. This is not in accord with Schultz' original plans but nothing else can be done. Childs is ready to try the behavior experiment with lemmings this afternoon. I'll have to help Steve reset the lines after all this hail. Hank is excited about these behavior experiments. He plans to follow these ideas through. Very cold & windy on the traplines. about a third of the traps were sprung. One lemming was found. Temperature must have been near 28° ±. after returning about 2200, I went back out with Rick ~~Fa~~ Frazer & Steve MacLean to act as chauffeur to Beach Ridge to collect their traps. They collected some birds and picked up 2 lemmings from their traps. Ice covered the grass but ponds weren't frozen due to the strong east wind.

18 Aug. Barrow, Alaska

Wind started from West today bringing large chunks of ice back in from the ice pack. Holland and I went through the colony work with ease. Hank is doing a little photography work with the behavior experiment. Dick shaved his beard off; looks like a young man again! After the colony work, Holland & I helped Hank set the live traps. Temperature dropped as did the wind so that ponds have a thin sheet of ice over them. I took Hank back out

GS.

1963 Journal

18 Aug. to the line plot after the movie

19 Aug Barrow, Alaska

Holland and I stayed with the colony work until 1430. The Schultz special diet is not working very well. Enough animals are dying to cause inconsistencies within the data. After 1500, Logsdon and I set lines XIII + XIV in the fertilizer plot. The plot is a little more wet than usual and several trapping stations were left without traps. Mild day compared to the freezes recently. A crisp wind from the east is blowing softly. After dinner, Hank and I set lines V, VI, VII and VIII while Logsdon pulled in III A, B and IV A, B. The nights are getting darker; it will be necessary to use weasels with lights pretty soon.

20 August Barrow, Alaska

Logsdon is ill with tonsillitis and is going into the village to see the doctor. Therefore, I ran the traps this morning leaving the colony to Holland. Since Keith Van Cleve + Glenn Stanley were going to the fertilizer plot to clip grass, I went along to check the lines and help them. They also clipped from Schultz' flat while I checked the other 4 lines. We got back by noon. After lunch I helped Holland finish the colony work. I decided to close down the metabolic experiment with special diet because of the frequent deaths and obvious

Journal

20 Aug. valueless data (except as a pilot experiment to point out trends and in which direction to concentrate on next time). After coffee, I went with Hank to pull in the line traps. It rained intermittently as heavy clouds passed over. After the movie, Hank and I checked the 6 lines. I dropped him at V, VI, VII & VIII while I checked the fertilizer plot lines. The road (?) out is becoming worse each time. We can make it a few more times, I suppose.

21 August Barrow, Alaska
Left to check the lines by 0810. Stopped by the line plot to start a coleman stove in the wanigan where the line traps are. this is to dry them so they won't mold during the winter. Very nice day, in the high 30's. Maher's group left for Peters Lake by 1300. It's been decided I would go to the Inaru with a volunteer, Rick Ashley of the Bohnsack project. Can't leave until the float plane returns from Peters, probably by the 23rd. Worked on the notes for the colony for awhile before dinner. After dinner Hank & I ran the lines. A juvenile Dicrostonyx was taken on line V.

Rest of notes to be sent later from 22 August on.

D. Stevens

1963

Journal

Aug 22 Barrow, Alaska

Checked the traplines by dropping Keith Van Cleve and Glenn Stanley by the gasline and proceeding onto the traps. Very strong wind from the east, blowing about 30 knots. Picked up Stanley & Van Cleve about 1100 on the way back. Worked on some notes and talked to Hank about the Inaru trip and next year's work. Started to rain off and on after lunch but cleared by 1700. We had extra help in bringing in the traplines. Holmes drove Rick Ashley and me to the Fertilizer plot. Hank, Dave and two other "volunteers" went to the Central marsh & Beach Ridge area. Inaru trip will be delayed until possibly tomorrow. The night was very calm. Very ~~little~~ few birds in central marsh.

Aug 23. ~~Helps~~ Barrow, Alaska

Helped Holland do the colony work and then worked on some notes. Gale winds blowing from the west, whipping large waves along the beach. Hank Childs left today. Just before dinner, Humphrey told me the Inaru flight was on for 1900. Rick Ashley is going in with me but I'm going on the first flight in. The wind has calmed to a breeze.

Inaru River

After unloading the equipment, I set one line of traps before the plane returned. Rick & I set up camp and then finished putting out traps. Water in the lake in front is higher than last year, by at least 10 inches.

23 Aug Inaru River, Alaska

The vegetation is greener than that of Barrow. I am not sure of the trapline numbers, that is, which 2 are I & II and III & IV. But I will call the ones behind the campsite I & II with the 0.0 end toward the river and the ones to the right of the campsite (as you face the lake) III & IV with the 0.0 stake closest to the campsite. I saw a snowy owl near lines III & IV. Very little bird life. A few gulls & a longspur are the only ones observed.

24 Aug Inaru ~~River~~, Alaska

Very clear, warm day compared to those recently at Barrow. Temp. must be in 40's. Gentle wind from the east. Checked lines after breakfast; a total catch of 27 lemmings. A Parasitic jaeger (adult) was flying around lines I + II, while the Snowy owl seen last night, was perched near the lake about 200 yds from lines III & IV. Another owl is across the river. Very few birds. About 3 shorebirds were feeding along lake edge. Some kind of sandpiper, a good guess was a Pectoral. No more than a dozen or less Longspurs are in the immediate area. Rick had an upset stomach this morning. He's sleeping now. In the morning light, the habitat (primary) for the lemmings is full of runways, and cuttings are apparent. Two other lemmings were moving near the traplines but were not pursued. We'll get them later! Stayed in tent until time to check lines. While checking one set of lines (I & II) saw an adult and 2 juvenile lemmings near the lines. Saw a ~~Red~~-back Sandpiper. Dark clouds in the east; probably a storm coming.

D-Stamm
1963

~~[illegible]~~
5e.

Journal

25 Aug **Dranu River, Alaska**

Heavy wind w. the rain from the east, Started about 0200. Wind up to 40 knots at times. Tent leaking on my side. Checked lines about 0900. Got soaked checking the last two lines. Rick feeling better but has throbbing headache at times. Tent ridgepole about to give. We lashed it as best as possible last night, but it's getting worse. Rick walked to the fish camp to look for a long pole to hold up the ridgepole. Didn't find anything but came back with a good idea. Fixed the ridgepole by moving the front pole back to the middle of the Tent. Rain stopped about 1300 and wind came down to about 15-20 knots. Spent the day drying out wet clothes and wet bedding. Checked traps about 1900. Half of the four caught (Clines I & II) were wet from the rain. This means they were caught between the morning trap check and about 1300 when the rain stopped. The trap record tends to demonstrate how beneficial the dark(?) hours are as the biggest catch is in the morning. Saw 2 jaegers during the evening run. At a distance appeared to be parasitics but may be young Pomarines. We saw 10 caribou across the river last night but no others in immediate area. Noticed how red the _Arctophila_ is and how most of willow is dying. Other vegetation still mostly green. The _Eriophorum vaginatum_ is part yellow (upper half) but there seems to be more cotton heads on the high polygons

25 Aug than I remember last year about this time.
Started to rain again about 2100, steady downpour. Wind hasn't become very strong but starting to. Pretty sure the ridge pole will hold. Strong winds + rain started about 2100 and lasted a couple of hours. May hold down the catch.

26 Aug <u>Ingru River, Alaska</u>

Weather: overcast with scattered showers. mild wind from the west. checked traps around 0900. Rick + I cleaned up as much as possible, then read. Rick checked his pitfall insect traps and came back with a weasel. About 1500 we started picking up the traps. Saw a Long-tailed jaeger near I + II. the 2 small jaegers last night <u>could</u> have been Longtails. Float plane arrived right on time!!! Rick + I left with the first load. Glad to be home. Upon returning, Logdon told me I had lines I + II backwards and III + IV backwards. I'll have to ask Dave or leave a note or something. Dick + Debbie already left with the R4D to Anchorage.

Checked Mullen's ~~aer~~ aerial photo with lines indicated. Made appropriate changes.

Stevens, G.

1962 - 1963

Alaska

Species Accounts: 1962 - 1963

Gavia stellata

July 14, 1962, ♀+, Barrow, Alaska; a female shot by me at the Point. Was travelling with another.

1963

Gavia stellata

29 July Pitmegea River - Cape Sabine, Alaska

Several flying overhead and settling in river. Sometimes are flying alone, other times in groups of 2-3.

Gavia artica

July 9, 1962, Ikraovik Lake, Barrow, Alaska;
While circling the southern end of the lake through the marshy areas, two were seen in the water (actually backwater). Another was seen in a small pond about a half-mile from the first two.

Aug. 14, 1962, Lake Peters, Alaska; Several seen at different times, usually flying north-south over the lake toward Schrader Lake.

Aug. 18, 1962, Ivaru River, Alaska; A single loon lands on a small lake just off the river, occasionally in the afternoon, but usually in the evening.

Aug. 15, 1962, Ivaru River, alaka; The laughing cry of the loon heard very close to the tent about 0700. Was very close to Glaucous gulls and Arctic terns who were crying out.

Anser albifrons

Aug 19, 1962) Innoko River, Alaska; A flock of about 14 flew over the lake in front of our camp. Seemed as though they would land, but didn't.

1963 — Anser albifrons

11 June — Barrow, Alaska
One flying south over Gasline ridg

12 June — Barrow, Alaska
One flying west over Voth Area.

Chen hyperborea

June 14, 1962, Over central marsh, Pt. Barrow, Alaska.; flying SE.
4 individuals. appeared to be landing on other side of receiver station.

June 2.

<u>Branta Canadensis</u>

Aug 18, 1962, Inman River; one seen on lake in front of our camp as we arrived - It left immediately.

Branta nigricans

July 14, 1962, Pt. Barrow, Alaska; just north of the point, a single individual in the water occasionally diving for fish.

Branta ~~michigans~~ nigricans

21 June Barrow, Alaska

a male a female collected from central Marsh, female with brood patches. Another lone individual was seen later.

Olor columbianus

Aug 14, 1962, Between ARL and Lake Peters. Several pairs, sometimes with young seen on small lakes or ponds.

Anas acuta

11 June 1962. Western side of fresh water lake, Pt. Barrow, Alaska
5 seen, 4♂ + 1♀.

On body of water just south of airport, 5 seen.

June 12 3♂ + 1♀ seen near the meadow lakes flying NW.

June 14, central marsh, Pt. Barrow; about 20 individuals flying SW

June 15. Central marsh, Pt. Barrow; 24 individuals flying south

June 16, Voth area, Pt. Barrow; 2 individuals (pair?) seen at various spots, never stopping for very long.

June 17, ¼ mi south of ARL, Pt. Barrow; 2 individual, at least one was ♂, maybe both, flying south. ♂ was displaying by throwing its head back and peeping loudly. Did this about 4 times and flew on.

June 23, 1962, 20 yds east of row of drums nearest Fresh Water lake road; Nest found with 7 eggs on top of a polygon.

July 5, 1962, 20 yds east of row of drums nearest Fresh Water Lake Road; same nest found June 23, still has only 7 eggs.

July 7, 1962. North of "Little Freeway," ¼ mi east of Village-ARL Road, Pt. Barrow, Alaska; nest with 7 eggs; hen easily frightened by passing vehicle.

August 19, 1962, Inaru River, Alaska; Five seen on pond about a half-mile from camp.

1963 <u>Anas acuta</u>

12 June <u>Barrow, Alaska</u>

a group of 3 flew over lines III A, B & moving south in the morning. In the Afternoon, a flock of 12 flew the same direction at the same place.

13 June <u>Barrow, alaska</u>

a flock of 9 flew over the freeway south

15 June <u>Barrow, alaska</u>

a large flock (15+) flew over the Barrel area north.

18 June <u>Barrow, alaska</u>

One small flying over Barrel area east

27 June <u>Barrow, alaska</u>

3 ♂♂ + 2 ♀♀ on a small pond across the road from Fresh Water Lake (south side)

29 June <u>Barrow, alaska</u>

a ♂ on stream leading into Wohlschlag Slough

20 July <u>Barrow, alaska</u>

a group of 4 hens on pond near [Ikroavik?] Lake.

29 July <u>Pitmegea River - Cape Sabine</u>

a hen w/ 4 young on small pond near [trapline?] I

Polysticta stelleri

July 9, 1962, Lake Ikraorik, Barrow, Alaska;
At the southern end of the lake, a flock of ten hens were in the water set off from the other flocks.

July 15, 1962, Barrow, Alaska; On the road next to fresh water lake, a drake and two hens flew across as we drove south. Evidently they were not on the lake but on small ponds across the road from the lake.

July 16, 1962 Pt. Barrow, Alaska; on returning to ARL from "Little Freeway," saw two ducks in the ocean that I did not recognize. With Holmes there, turned out to be two hens.

1963 *Polysticta stelleri*.

11 June Barrow, Alaska,
3 ♂♂ + 2 ♀♀ flying NE over Gasline ridge; landed in central marsh.

12 June Barrow, Alaska,
1 ♂ on a small pond between Family Lagoon and South Salt Lagoon (West of Britton's area) feeding.

18 June Barrow, Alaska
a pair (♂ & ♀) flew over Gasline Ridge toward Upper Meadow lake.

21 June Barrow, Alaska
Several pair on small ponds in central marsh ± 2 mi from Gas well.

29 June Barrow, Alaska
One in small pond in Central Marsh.

20 July Barrow, Alaska
a ♀ w/ 6 chicks in area between cakeater and Britton's area, west of lines III A, B.

29 July Cape Sabine
many hens (15+) near mouth of river and ocean. Some were flying south along the coastline.

Arctonetta fischerii

June 14, 1962 Pt. Barrow, just south of ARL.

Flock of eiders (believe to be Spectacled) numbering 35±
flying NE. Did not land.

July 2, 1962, Central Marsh, Pt. Barrow; Three hens and a drake
seen near a pond. A parasitic jaeger chased a hen for a
few feet, then gave up.

Lampronetta fischeri

14 June Barrow, Alaska

One on a small pond in Britton's area feeding.

21 June Barrow, Alaska

One (♂) in centric marsh, very wary

29 June Barrow, Alaska

A drake taken by D. A. Mullen near A.A.C.S on a small pond. Will be preserved as a skin.

20 July Barrow, Alaska

A ♀ shot by R.T. Holmes on the wing to be preserved as a specimen. Shot near Lake Ikroavik.

<u>Somateria</u> s<u>pectabilis</u>

July 10, 1962, Pt. Barrow, Alaska; at Bridge near "duck camp," flock of eiders flew over, Muller bagging two.

<u>Somateria spectabilis</u>

14 June <u>Barrow, Alaska</u>

4 ducks, 2 ♂♂ and 2 ♀♀ flew over Voth creek east.

20 July <u>Barrow, Alaska</u>

Large flocks of molting ~~ducks~~ eiders are flying with the east wind.

1963

Somateria mollissima

29 July Pitmegea River – Cape Sabine, Alaska

a few observed near mouth of river; Some were starting south along the coast.

Clangula hyemalis

11 June 1962 At western end of fresh water lake, Pt. Barrow, Alaska, 1 ♀ seen. Did not frighten easily. When something was thrown close to it, flew a hundred yards low across the water, landing again in the water a few minutes later, without further harassment, (sp?) flew away south.

On body of water just south of airport were about 8.

June 12 about 6 seen on central marsh.

June 14 at ~~western~~ eastern end of small body of water, 1/4 mi E of ARL, Pt. Barrow. a pair seen landing in the water.

June 15. at southern end of fresh water lake, Pt. Barrow; ♀ seen swimming. On body of water just west of above mentioned ♀; a pair seen. ♂ displayed once with the cocking back of the head.

June 16. Voth Area, Pt. Barrow; On a small body of water just SW of receiver site were four individuals; for certain there were a ♂ + ♀.

June 24 NW corner of Upper Meadow Lake, Pt. Barrow; a pair were displaying by diving into the water and then shooting upward. a third tried to butt in 3 times but was chased away each time.

July 7 Rohlschlag Slough, Pt. Barrow, Alaska; a male and female observed on water. Mullen took 2 shots at the drake but missed.

July 9, 1962, Southern end of Lake Ikroavik, Barrow; a flock of Ten hens in the water set off from the other birds.

July 14, 1962, Pt. Barrow, Alaska; Large flock of about 150-200 Drakes + hens in water off point (in calm water)

Clangula hyemalis

15 June Wainwright, Alaska

3 in water adjacent to the runway for Liz III. One squabble occurred when one came too close to another. A retreat followed closely.

18 June Barrow, Alaska

A few on Fresh Water Lake.

20 June Barrow, Alaska

4 individuals on Fresh Water Lake. near shore.

21 June Barrow, Alaska

2 individuals on small stream near Gas Well

25 June Barrow, Alaska

A group of 16 on Fresh Water Lake near South shore.

27 June Barrow, Alaska

A group of 5 on Fresh Water Lake near South Shore.

29 June Barrow, Alaska

A pair on Wohlschlag Slough near shore.

Aquila chrysaetos

Aug 15, 1962, Lake Peters, Alaska; One seen flying south - north
over mountain at least 2000' up.

Falco rusticolus

July 9, 1962, Southern end of Lake Ikroavik, Pt. Barrow,
One seen flying slowly east over the marsh.

1963

Falco rusticolis

31 July ♀, Anigaq River - Cape Sabine, Alaska

3 juveniles (flying) and one adult (or 4 juveniles) were nesting on a cliff side about 3½ miles from the mouth of the river. Attempts to secure the birds dead or alive were futile.

Lagopus mutus

Aug 14, 1962, Lake Schrader, Alaska; a group of 5-7 seen next to lake in high grass and dwarf willows were not easily frightened.

1963

Lagopus mutus

31 July Pitmegea River - Cape Sabine, Alaska

3 individuals in willows (low) observed, after being flushed, about 2½ miles from mouth of river.

Squatarola squatarola

Aug 19, 1962, Ivane River, Alaska; several seen and heard around camp. Usually were in a pair.

Pluvialis dominica

11 June 1962 On high, dry ground just south of POW. Pt. Barrow. a pair w/o dimorphism, & stood watching. One sang occasionally in high-pitched short whistle.

June 12 | One only seen at Gas line ridge

June 14 | Pair seen at Beach Ridge, 1/4 mi from POW

June 15. | Gas line, 1/4 mi. South of ARL; one seen.
~~Central marsh~~ Gas line Ridge; 2 pair seen.

June 16, | Voth area, Pt Barrow. ♂ seen displaying by raising rear end of while the ♀ is behind. Several others in area.

June 20, | Trap line ~~IX & X~~, Pt. Barrow; pair seen.

June 22, | 1962, 20 yds NW of Trap line IX, Pt Barrow; a type of distraction display where the individual was sitting (not on the nest), and flapped its wings several times in rapid succession. As I neared a little more, it ran south without further ado. Could not find the nest.

June 23, | 1962, Trap line X, Pt. Barrow; nest about 25 yards south of 10.0. Has 4 eggs and on a polygon in plain view. "Drum area"; nest found with 3 eggs in middle of drum area; marked with orange stake.

June 29, 1962. In small ravine across Voth Creek from Voth area Pepper, Pt Barrow; a male was running up the north side of the ravine away from my oncoming weasel in a type of fleeing, not distraction.

July 4, 1962. Central Marsh, Pt. Barrow; Small groups of plovers are gathering. The groups are from 3 – 4. Observed several groups tonight.

July 17, 1962, Line X, Pt. Barrow; nestlings are gone from nest referred to on June 23. Owl in area.

48

1963 Pluvialis dominica

11 June Barrow, Alaska

One sitting on a mound between Gasline ridge & AACS; no action other than a few running steps.

14 June Barrow, Alaska

One flying near lines III A, B.

15 June Wainwright, Alaska

A pair near lines I and II (?8) calling but no action.

18 June Barrow, Alaska.

Several (4-5) between AACS & Gasline Ridge One instance of territoriality.

21 June Barrow, Alaska

a pair in central marsh.

25 June Barrow, Alaska

a pair near line 0.6, Line X

27 June Barrow, Alaska

a pair moving back & forth across line X. Several traps have been set off due to this pair undoubtedly.

30 June Barrow, Alaska

I finally found a nest on line III B, 7.6, just east of the stake on a polygon top without grass. 4 eggs. Found earlier and described by H.E. Childs Jr.

22 July. Barrow, Alaska

a flock of these (8) on road next to Fresh Water Lake feeding along the shore. In heavy molt.

U.S.

1963

<u>Pluvialis dominica</u>

27 July <u>Barrow, Alaska</u>

A pair w/ 4 chicks on west side of fertilizer plot. The primaries of the chicks were barely evident.

30 July <u>Pitmegea River - Cape Sabine</u>

A young one, in first flying plumage observed in grassy area near ridge top.

1963

(semipalmatus)

Charadrius hiaticula

31 July — Pt. Hmyca River — Cape Salime, Alaska

One individual on sandbar in river feeding; same one collected.

1963

<u>Limosa lapponica</u>

29 July <u>Pitmega River - Cape Sabine, Alaska</u>

A female collected near the mouth of the river in thick willow area. Preserved as a skin by H.E. Childs Jr..

Arenaria interpres

June 16, 1962, Voth area, Pt. Barrow, Alaska; ♀ seen on nest. Chased by a dog. In same area, one was seen chasing a jaeger (pomarine).

June 17, 1962, Voth area, Pt. Barrow; Pair seen just west of receiver site.

June 23, 1962, "Drum Area"; Pair on water.

July 2, 1962, Beach Ridge, Pt. Barrow; a male feeding on the ridge where there is supposed to be a nest in the area.

July 4, 1962, Central Marsh, Pt. Barrow; Male seen near a group (6) of Golden Plovers.

July 7, 1962, 500 yds NW of receiver site, Pt. Barrow, Alaska; Pair seen on ground only momentarily. not feeding.

August 24, 1962, Pt. Barrow, Alaska; A pair seen on a small pond in association with Dunlin, Western Sandpipers, Sanderlings & Phalaropes. In winter Plumage

Arenaria interpres
(Arenia corrected to Arenaria above the line)

29 June Barrow, Alaska

One on Beach Ridge near Wohlschlag Slough in high polygonal area. A stake near it indicated that the nest had been located earlier.

25 July Barrow, Alaska

One ♂ near Fresh Water Lake. R. T. Holmes says there is a large flock (20) near here.

30 July Pitmegea River - Cape Sabine, Alaska

One observed on river bank feeding.

31 July Pitmegea River - Cape Sabine, Alaska

A group (6+) of juveniles feeding along the banks of the river. At first were thought to be Black Turnstones.

20 Aug. Barrow, Alaska

A few ~~young~~ juveniles are near the south shore of Fresh Water Lake, feeding.

Crocethia alba

June 26, NW Upper Meadow Lake, Pt. Barrow; Recorded flight song (Holmes) of male. Did chase once but did so over the Beach Ridge beyond sight and adequate hearing.

Aug 24, 1962, Pt. Barrow, Alaska; On small ponds halfway to the extremity of the Point were many (total 50-75) mixed in with Dunlin, Western Sandpiper, Phalaropes.

Ereunetes pusillus

11 June 1962 Salt lagoon #1 Pt Barrow, Alaska.

three individuals seen going through act of hovering over the ground (50 ft in air) while emitting the motor boat sound.

June 16, 1962, Voth area, Pt. Barrow; Individual about 50'-75' above ground, hovering, emitting the motor boat sound.

June 18, 1962 Voth's area, Pt. Barrow; one nest found which is actually across from Voth's area proper, across the "Little Freeway." also, to the north of this nest, a male was seen going through the nest cup display of going from one nest to another in a tail down, hunched position. He would settle on a nest cup for a few seconds and go to the second. the female followed him in both instances. then both went off to feed. Both cups were located and marked.

July

Ereunetes ~~semipalmatus~~ pusillus

21 June Barrow, Alaska

A male displaying via aerial & song movements & song in Barrow area. No other was seen.

23 June Barrow, Alaska

A nest with 4 eggs near waterline between explosives shack and animal house. Mother did not become very excited when I found nest but did stay in vicinity.

29 July Pitmegea River - Cape Sabine

Several, some in flocks, on river

19 Aug Barrow, Alaska

A few are on the shore of Fresh Water Lake.

21 Aug. Barrow, Alaska

A few are near the south shore of Fresh Water Lake

G.S.

1963 *Ereunetes mauri*

19 Aug. Barrow, Alaska

a few are along the south shore of Fresh Water Lake

Erolia bairdii

June 14 Central marsh almost to Beach Ridge, Pt. Barrow, one individual on ground.

June 17, 1962. Voth's Area, Pt. Barrow; several pair here, but did not locate any nest.

July 5, 1962. 100 SW of airology, Pt. Barrow; a nest found with four eggs. Very elaborate distraction display by the brooder.

July 19, 1962, Pt. Barrow; nest referred to on July 5 is gone along with parent.

July 18, 1962, Voth Area, Pt. Barrow; a flock of six in area moving about, occasionally caught in our traps.

D. Stevens

1963

Erolia bairdii

11 June ~~1963~~ Barrow, Alaska

Gas line ridge – Display of the ascending & trilling during the ~~descen~~ cruising was seen over line I & II. ~~[illegible]~~ one ♂ showed an aggressive attitude toward another Baird's by chasing the latter from its territory in swooping dives until the latter reached the outskirts of its territory.

13 June Barrow, Alaska

a ♂ & ♀ on Fresh Water Lake road near AACS male displayed both wings straight up in the air for a few seconds.

14 June Barrow, Alaska

A nest found in Britton's area with 4 eggs.

15 June Wainwright, Alaska

a ♀ was startled off her nest northeast of Log III a few hundred yards away. The same wing display was immediate after jumping from the nest area.

17 June Barrow, Alaska

a ♂ displaying with song (dry trill, R.T. HOLMES) and moving the wings rapidly in a small arc. Another ~~chirping or~~ short song of a few notes occurs just before the ♂ lands. the ♂ usually landed in a large patch of snow just south of lines I & II

25 June Barrow, Alaska

a nest adjacent to AACS on turnoff to lines IX & X from Fresh Water Lake Road with 4 eggs.

D.S.

1963

Erolia bairdi

19 Aug. Barrow, Alaska

Several individuals, probably juveniles along the south shore of Fresh Water Lake.

Erolia melanotos

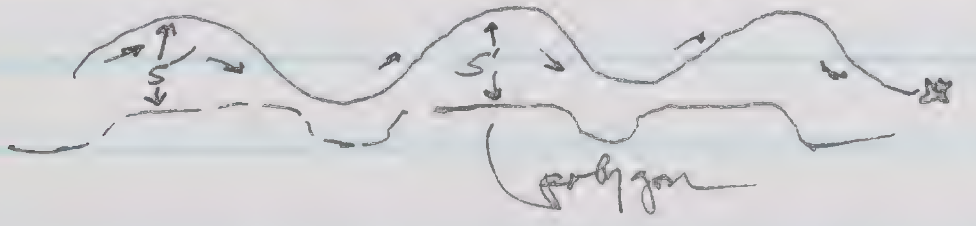
June 17, 1962 Voth's area, Pt. Barrow; at 1430, one seen at southwestern end of Voth's area and at 2200, one seen at Voth's area next to "Little Freeway." No display. In both instances just fed.

June 22, 1962, On road east of trap line IX & X; Flock of 64 (at least) feeding on road and adjacent hillside. When startled, moved away in a flock under control and moved in a circle coming back down in the same area

June ~~22~~ 23, 1962, Trap lines IX & X, Pt. Barrow; Flock has increased (according to Holmes) to about eighty and has moved across the pipe line and are still feeding. Holmes says they are all males. Significance?

~~June~~ "Drum area" just above trap line IX; male went through the territorial display of flying up and down in an "undulating" wave motion emitting the low hooting sound on the upbeat. The wings were flapped on the upbeat and then it would glide downward. A female was sitting nearby, but I failed to locate the nest. Several other males were nearby feeding; these were associated with the flock mentioned earlier.

Pectoral Undulating flight in territorial display.



June 24, Central marsh near Trap line VII; male glided over ground with its gular pouch filled emitting that long trill.

Erolia melanotos

June 29, 1962 area across from Voth area Proper (east of it) Pt. Barrow; a flock of 22 were feeding on a level plain without any displaying. No other birds in the immediate vicinity.

July 2, 1962, Beach Ridge, Pt. Barrow; a flock of seven seen feeding; no display.

July 4, 1962, Central Marsh, Pt. Barrow; a male killed by me for a specimen.

Aug 17, 1962, Ivaru River, Alaska; 4 seen fairly close together near our camp.

1963 — *Erolia melanotos*

11 June — Barrow, alaska

On Beach ridge ~~[illegible]~~ one ♂ constantly moving around, occasionally displaying. Defend its territory against another Pectoral once. Others could be heard displaying in adjacent areas. On Gasline ridge 2 ♂♂ flew side by side, probably on the fringes of their territory. No actual defense of territory was attempted.

12 June. Barrow, alaska

A male seen near trap lines III A,B chasing another ~~[illegible]~~ male away.

13 June Barrow, alaska.

A group of 5 were diving and circling low to the ground near Gasline Ridge

14 June Barrow, alaska

Individuals sighted occasionally by Vath area and Britton's area

15 June Wainwright, alaska

Two were seen, one displaying via the call and low flight.

17 June. Barrow, Alaska

Several males are encountered in trip from Beach Ridge to Gasline Ridge.

18 June Barrow, alaska

A pectoral nest with 4 eggs located south of 10.0 of line I about 20 yards.

Erolia melanotos

20 June <u>Barrow, alaska</u>.

♀ with nest of 4 eggs 20 yards south of 100 on trapline I still the same, no change. ♂ in Band area, evidently unpaired.

21 June <u>Barrow, alaska</u>

♀ with nest of 4 eggs in central marsh.

25 June <u>Barrow, alaska</u>

Four ~~[illegible]~~ seen on line IX flying and then stopping to feed.

28 June <u>Barrow, Alaska</u>

A pectoral nest is between lines II A, B but wasn't located.

1 July. <u>Barrow, alaska</u>

A ♀ taken on trapline II B. Given to R.T. Holmes

6 July <u>Barrow, alaska</u>

a group of 7 observed flying and landing to possibly feed near the gasline above upper meadow Lake

19 July <u>Barrow, alaska</u>

a flock of 15 west of lines I & II on Gasline Ridge.

21 July <u>Barrow, alaska</u>

a group 3-5 were feeding on Beach Ridge near AACS

21 August <u>Barrow, alaska</u>

a flock of 20± were feeding ~~[illegible]~~ on the road leading south from the AACS area. Five were collected for R.T. Holmes.

Erolia alpina

June 16, 1962. Voth area, Pt. Barrow, Alaska; a pair seen and then a nest found about 10' west of III A. the stake had to be placed 4' east instead of west because of water on east side. Contained 4 eggs.

June 17, 1962 Voth's area, Pt. Barrow; 2 killed about 1530 by Hines and Sullivan. From 2000 to 2200, 4 nests found, each w/ 4 eggs. these 4: 2 are in Voth's area Proper, and the other 2 are on the other side of the "Little Freeway" across from Voth's area Proper. In each instance, Dunlin was quick to leave the nest; only once did we find the nest the first time. the males are still displaying and singing

June 28, 1962. Across Voth Creek from Voth area Proper, Pt. Barrow; a male and a female were copulating. the male was mounted and flapping his wings. The act of mounting lasted about 10 seconds. there was no postcopulatory display.

July 4, 1962, central marsh, Pt. Barrow; One female killed by Holmes for specimen.

July 18, 1962, Voth area, Pt. Barrow, Alaska; Noticed flock of six around trap lines; two were caught in our traps.

July 21, 1962, Beach Ridge, Pt. Barrow, Alaska; a flock of five seen.

August 19, 1962, Inaru River, Alaska; Only a ~~pair~~ couple seen by myself, but Hines said he saw more than two.

August 24, 1962, Pt. Barrow, Alaska; a few were in association with Sanderlings & Phalaropes on small ponds halfway to the Point.

1963 *Erolia alpina*

Barrow, alaska

11 June From Beach ridge & Gasoline ridge, the calling of ♂♂ could be heard.

12 June Barrow alaka

I seen flying near lines XII A, B.

13 June Barrow, alaska

2 ♂♂ seen displaying via the high, trilling note near lines IX & X

14 June Barrow, alaska

A nest with 3 eggs found near Holmes' insect plots.

15 June ~~Barrow~~ Wainwright, Alaska

Several pair are in the area but not enough time for accurate observations.

21 June Barrow, alaska

A pair on Beach ridge near lines VII & VIII

28 June Barrow, alaska

A nest with 4 eggs near c.c. on line III A was staked.

21 July Barrow, alaska

One on polygons between upper meadow lake & Gasoline

~~24 July Barrow, alaska~~

~~a group of 5-7 near Fresh Water Lake feeding, all were in heavy molt.~~

~~27 July Barrow, alaska~~

~~a pair w/ 4 chicks on west side of fertilizer plot. the primaries on the chicks were barely evident.~~

Limnodromus scolopaceus

Aug 19, 1962, Inaru River, Alaska; one seen around a series of small ponds about a mile from the river.

Aug 24, 1962, Pt. Barrow, Alaska; one seen by me; Holmes saw three others about halfway to the Point on a series of small ponds.

Phalaropus fulicarius

July 4, 1962, central marsh, Pt. Barrow; A male killed by me for a specimen; also the phalaropes are grouping in the marsh. observed a flock of about 25 in a pond.

July 7, 1962, Ookpik Slough & immediate area; Pt. Barrow; Flocks and individual birds still nesting seen feeding, and on water in good size numbers.

July 4, Southern end of Lake Ikroavik, Barrow, Alaska; several flocks totaling approximately 500, all molting.

July 19, 1962, Voth Area, Pt. Barrow; Two, sometimes three in the air constantly peeping.

Aug 17, 1962, Ivanu River, Alaska; Small flocks on the ponds a couple of miles off the river. Were in winter plumage.

Aug 24, 1962, Pt. Barrow, Alaska; Large flocks (25-40) on ponds totaling 2-300 on the point. All in winter plumage.

1983 Phalaropus fulicarius

11 June Barrow, alaska
One seen at 0.0 on line I on Gasline ridge. No definite action seen.

12 June Barrow, alaska
Near lines III A, B. one found sitting on a small pond and feeding, then 2 more in a similar situation.

14 June Barrow, alaska
Very abundant in the watery areas between Front St. & Beach ridge. Saw one attempt at copulation

15 June Wainwright, alaska
3 seen but surely more due to large amount of water available.

18 June Barrow, Alaska
Abundant in pools throughout areas by Beach Ridge.

21 June Barrow, Alaska
~~Saw~~ Many phalaropes in watery areas. An aggressive display by ♀ toward other ♀ for protection of her mate seen in Central Marsh.

27 June Barrow, Alaska
A group of 5 females were feeding in Central Marsh adjacent to Beach Ridge.

28 June Barrow, Alaska.
A nest with 2 eggs was found at 0.0 on line IVA

1963 *Phalaropus fulicarius*

1 July Barrow, Alaska

A male was taken in a snaptrap on IV B near a nest at 0.0. Probably the parent.

20 July Barrow, Alaska

Phalaropes are flocking on ponds. On ponds near Lake Ikroavik, flocks of 10-30 were counted.

19 Aug Barrow, Alaska

Phalaropes along Fresh Water Lake in small numbers.

20 Aug. Barrow, Alaska

Juveniles along the shore and in the water of Fresh water lake

21 Aug. Barrow, Alaska

Flocks of young near the Fertilizer plot

Stercorarius pomarinus

June 12 1962. Central marsh, Pt. Barrow., 8-12 individuals seen setting and flying. also one melanistic

June 14, 1962. Central marsh, Pt. Barrow., One individual winging northwest

June 15. Just south of fresh water lake and East of gas line; one was seated on a high (3') tuft of ground. Hinco said it was not in a nesting pose. It flew after about 30 seconds.

June 16. Voth Area, Pt. Barrow; ♀ seen on a high mound in a position of which may be brooding. Did not have chance to check.

June 17, 1/4 mi south of ARL, between Fresh water lake and row of barrels to the west of the lake, Pt. Barrow; One individual flying south about 20 ft. above ground turned as if it had seen something on the ground, but then flew on.

June 23, ~~[illegible]~~ Northern part of Upper Meadow Lake, Pt. Barrow; Pair seen ~~[illegible]~~ flying over area, evidently preying.

June 24, Trap line V, central marsh; One individual seen preying on area about 15 feet above ground.

July 2, 1962, Central marsh, Pt. Barrow; Five individual seen in a group with one parasitic jaeger.

D. Stevens

1963 Stercorarius pomarinus

11 June Barrow, Alaska

One cruising over barrel area adjacent to fresh water lake road. Two, possibly a pair on Beach Ridge, usually cruising low for lemmings.

12 June Barrow, Alaska

One seen circling over Barrel area in the morning. A pair are situated in an area west of trap lines III A, B and predate the surrounding area.

13 June Barrow, Alaska

Near Gasline ridge, Steve Logsdon & I watch a pomarine chase a Snowy owl (♀?) which has invaded its territory. The chase was in a circle with the owl returning to its original spot and the chase ending.

14 June Barrow, Alaska

A pair previously observed near lines III A, B. and another pair near Brant Point. No nests found.

15 June Wainwright, Alaska

A pair searched the tundra in the immediate tundra east and north of Liz III.

16 June Barrow, Alaska

One in Barrel area stopped suddenly in the air with a backward motion of the wings and dropped about 10-15 feet to the ground behind

Stercorarius pomarinus

16 June ~~E~~ a mound (polygon). assumed predation on a lemming. could not see any action. Jaeger did not leave for several minutes.

17 June Barrow, Alaska

One moving over Beach Ridge near pipeline.

18 June Barrow, Alaska

A ♀ perched on polygons north of Gasline Ridge.

21 June Barrow, Alaska

3 nests located, all with 2 eggs:

(1.) 100 yds north of line VII.

(2.) Central marsh by Wohlschlag Creek

(3.) West of Lower meadow lake

Also a melanistic on Beach Ridge SE of line VIII. Four were near lines IX & X by AACS diving & hovering over the tundra. One clash occurred of a very brief interlude.

25 June Barrow, Alaska

One over lines IX & X preying. Perched near Fresh Water Lake road

27 June Barrow, Alaska

One over lines II & VI robbing an occasional trap.

29 June Barrow, Alaska.

A pair between Central Marsh and Gasline Ridge. Nest wasn't found.

5 July Barrow, Alaska

One observed near lines XIII & XIV tearing up sod randomly, occasionally pausing to swallow. Appeared to be eating insects.

Stercorarius pomarinus

5 July Barrow, Alaska (cont'd)

the area around it was low and grassy surrounded by small ponds.

6 July Barrow, Alaska

a pair were calling loudly in vicinity of western end of Upper Meadow Lake. a short time later, a Snowy Owl flew SE.

19 July Barrow, Alaska

A chick located near nest where adult was. Had already been banded by Holmes. this was near lines XI, XII

23 July Barrow, Alaska

a pair near 10.0 on line V are the most excited ones I've seen this spring. Holmes says this is more normal than the ones which are rather lethargic. Holmes also says 2 chicks are present.

27 July Barrow, Alaska

A pair, one with very short rectrices were flying around lines XIII + XIV. Probably a pair observed earlier in this area.

16 Aug Barrow, Alaska

One near lines III A, B, hunting.

20 Aug Barrow, Alaska

3 pomarines, 1 juvenile, flying over the fertilizer plot.

21 Aug. Barrow, Alaska

an adult in central marsh next to Beach ridge, north of lines VII + VIII, had caught a lemming and was trying to eat it fast as a Glaucous ~~[illegible]~~ Gull made short circles around it, once coming within a few feet of the

Stercorarius pomarinus

21 Aug Barrow, Alaska

jaeger. The jaeger ~~shredded~~ slashed the lemming several times with its beak, tearing small chunks loose and finally swallowed the bulk of the carcass intact. The gull stopped bothering the jaeger at this point.

Stercorarius parasiticus

June 19, 1962, just behind ARL (South), Pt. Barrow; A pair seen preying together over mushy area. One was in the dark phase, (gray-black), and the other was the black w/ the white eye marking, or light phase. Neither one picked up a lemming in the time I watched

June 20, 1962, Trap line X, Pt. Barrow; one seen sitting near line, flying after we arrived and did not return.

July 1, 1962, Voth area on east side of Voth Creek, Pt. Barrow; an individual seen cruising over flat area at about 1830.

July 2, 1962, Central Marsh, Pt Barrow; Four seen all told through a range of a half-mile.

July 4, 1962, Central Marsh, Pt. Barrow; Several seen in a group of about 10 mixed with long-tailed jaegers

July 7, Ookpik Slough & area immediately surrounding, Pt. Barrow; Several seen on ground and in air with longtail Jaegers

Aug 14, 1962, South end of Peters Lake, Alaska; A pair were seen commonly together but as many as four were seen in a group. Dark & light phases were evident. Were usually over the water, but occasionally crossed the ground next to the lake, hunting.

August 19, 1962 - Snow River; a pair seen just behind & once directly in front of our tent.

Stercorarius parasiticus

18 June — Barrow, Alaska

One flying over Barrel area hunting

22 July — Barrow, Alaska

a melanistic one was observed on Fresh water Lake Road next to the lake in association with a group of 10 longtail jaegers.

29 July — Pittmega River – Cape Sabine

a pair are located here, the ♂ being melanistic. No young have been seen.

16 Aug — Barrow, Alaska

One flew north over Voth Slough

Stercorarius longicaudis

June 30, 1962, Central marsh, Pt. Barrow; John Hines & R.T. Holmes sighted 85 of these. One was shot and put up as a specimen by Hines.

July 2, 1962, Central Marsh, Pt. Barrow; About six seen in one flock; evidently were on ground until Hines & I drove by and then scattered, but as a flock.

July 4, 1962, Central Marsh, Pt. Barrow; Several seen in a flock of about 10 ~~—~~ mixed with parasitic jaegers.

July 7, Ookpik slough and immediate area, Pt. Barrow; Several seen on ground and in air with parasitic jaegers.

July 8, Between ARL & Lake Ikroavik, Pt. Barrow; a flock of ten were ~~[illegible]~~ seen circling the area.

July 23, Central Marsh, Pt. Barrow; Watched a pair ~~[illegible]~~ use the wind to hover directly over an area & then swoop down low over the ground building back up height after each dive, repeating the process constantly.

Aug 2, 1962, Liz III, Wainwright; Four seen adjacent to the station in a depressed area. Were fighting over a kill, (probably a lemming); only time & place seen.

G. Shuman

1963 *Stercorarius longicaudus*

20 June *Barrow, Alaska.*

A flock of 25 were about 1/4 mi north of lake Ikroavik. They had flown over earlier and then landed on a slight slope. Appeared to resting, not actively feeding.

22 July *Barrow, Alaska*

A group of 10 Longtails on the road next to fresh water lake feeding along the shore. Glaucous Gulls also present.

23 July *Barrow, Alaska*

7 of these are still present from yesterday. Gulls are still also there.

30 July *Pitmegea River – Cape Sabine*

A pair plus one young, flying, are located a 1/2 miles on a ridge east of camp.

1963

Larus canus

29 July Pitmegea River – Cape Sabine, Alaska

Individuals observed on beach hunting for food. many other shorebirds and seabirds present.

1963 Larus Hyperboreas

12 June Barrow, Alaska

A pair of juveniles hovered over the tundra on the west bank of Family lagoon. One adult perched in middle of Family lagoon.

13 June Barrow, Alaska

One juvenile on east side of Family Lagoon; it hovered over part of tundra only momentarily.

21 June Barrow, Alaska

3 juveniles flying over Barrel area

27 June Barrow, Alaska

A juvenile flying S.W. over Barrel area about 2200.

20 July Barrow, Alaska

A flock of 6 were meandering around the area west of lines III A, B. Did not appear to be hunting.

22 July Barrow, Alaska

A ~~flock~~ group of about 20+ on shore next to Fresh Water Lake by the road. Apparently feeding on crustaceans thrown up by wave action due to east wind. Other birds such as Longtail Jaegers, Golden Plovers, and Old Squaws

30 July ~~Barrow~~ Pitmegea River – Cape Sabine

Several flying up and down river from ocean in search of salmon stranded.

21 Aug. Barrow, Alaska

An adult circled around a jaeger eating a lemming, once ~~[illegible]~~ diving within a few feet of the jaeger. Made short cries occasionally.

Xema sabini

July 4 Southern end of Ikroavik Lake, Barrow, Alaska;
a colony of gulls were in the backwater of the lake,
several nesting. No antagonism noticed.

Aug 12, 1962. Between ARL & Lake Peters; near the Ikpikpuk,
a couple were sighted.

Sterna paradisaea

July 9, 1962, Southern end of Ikroavik Lake, Pt. Barrow; a total of 7-10 seen in air - on ground

Aug 20, 1962, Ivory River, Alaska; On a lake next to the river, a pair were diving at either the sticklebacks or other water forms along the edge of the lake where the water was not more than two feet deep at maximum.

1963

<u>Sterna paradisaea</u>

30 July <u>Pittmegea River - Cape Sabine, Alaska</u>

Several flying up and down river; others nesting on small island near mouth of river.

31 July <u>Pittmegea River - Cape Sabine, Alaska</u>

One collected about 1½ miles from mouth of river by myself. To be preserved as a study skin.

Nyctea scandiaca

11 June 1962 West of pipeline and between receiver site and ARL Pt. Barrow, alaska. ♂ seen in standing pose. Flew when neared.

June 12 ~~♂ seen in standing~~ West of pipeline, between receiver site and ARL, Pt. Barrow; ♂ seen in standing pose, probably the same individual from yesterday. (1400)

West of Pipeline, between receiver site & ARL, Pt. B., ♂ (2200) seen and ♀ was east of pipeline only sitting.

June 14. West of Pipeline, between receiver site and ARL; ♂ seen in two different spots.

June 16, 1962, West of pipeline, closer to receiver site but ~~on~~ between that and ARL. ♂ stayed in one spot. the ♀ continually moved if we came too near.

June 20, 1962, Trap line IX, Pt. Barrow; ♂ seen sitting on mound just ~~ea~~ west of IX.

1/4 mi south of ARL; individual flying low northward.

June 21, 1962 - Trap line IX, Pt. Barrow; a pair were about 50 yard north of IX. Both flew in the same direction, north, but were about 20 yards apart.

June 23, 1962 - Trap lines IX & X, a pair is north of line IX plus the male of a female which is south of the lines about 150 yds. All 4 are just sitting.

July 2, 1962 - ~~Cen~~ Central marsh, trap line VII, Pt. Barrow; a male was seen sitting on an enclosure.

July 10, 1962 - Holmes' Plot at north end of Lake Ikroavik; Pt. Barrow, alaska; Two seen on the plot moving around as we intruded but staying essentially in the area.

Nyctea scandiaca

July 18, Line IX, 8+, Barrow, alaska; Owl seen diving at a passerine bird or the chick of said bird. The owl dived at a certain spot but a bird which flew like a passerine (undulating) shot straight up. The owl paused a moment at this spot & then flew to another spot 50 yards further from me and set down.

August 2, 1962; Liz III, Wainwright, Two seen near our trapline. a man (Eskimo) working at Liz III claims to have found nestlings in the area. Sullivan was checking this.

August 19, 1962 Ivaru River; One seen in area.

1963 *Nyctea scandiaca*

11 June Barrow, Alaska

One female seen flying south away from the fresh water lake road. A male ~~spotted~~ between Beach Ridge and central marsh toward Pow main was eating something, probably a lemming. A male was seen 1/4 mi. west of Gasline ridge perched.

13 June Barrow, Alaska

One (♀?) perched near Gasline Ridge which was chased by a Pomarine Jaeger (See species account on *Stercorarius pomarinus*, June 13th)

14 June Barrow, Alaska

One male perched on slope of Beach Ridge toward Central Marsh.

15 June Barrow, Alaska

Near lines IX & X a ♂ + ♀ fought over a dead lemming for several minutes in periods of short duration.

15 June Wainwright, Alaska

One owl seen flying from its perch about 1 mile north of Fig III

17 June Barrow, Alaska

One ♂ near Gasline Ridge perched.

18 June. Barrow, Alaska

♀ on Beach ridge near lines V & VI. Another perched east of lines I & II. Another perched on Beach ridge between AACS and Gasline Ridge.

1963 Nyctea scandiaca

28 June Barrow, alaska

a ♂ on Beach ridge near Paw main perched.

29 June Barrow, Alaska

An individual south of lines II & VI and north of Wohlschlag slough perched on high polygonal area.

1 July. Barrow, alaska

One individual of south side of "Little Freeway, north of lines III A, B. R.T. Holmes says one has been seen there for some time

6 July Barrow, alaska

An individual flying SE above Upper Meadow Lake. Two Pomarine Jaegers were making noises earlier (5 minutes earlier)

19 July Barrow, Alaska

One in Voth Creek area. Probably the same one that has been seen near Voth's area for several weeks

20 July Barrow, alaska

One owl near Holmes' wanigan on the north end of his plot. Has been here for some time

23 July Barrow, Alaska

One individual on Beach Ridge east of Pitelka's plot. Has been in this area for the duration of the spring.

15 August Barrow, alaska

One flying SW over Barrel area.

Lanius excubitor

Aug 15, 1962, Lake Schrader, Alaska; One, only, seen hovering over ground next to lake about 5 ft. off ground.

Oenanthe oenanthe

Aug 15, 1962, Lake Peters, Alaska; Found on mountain base and up on mountain side to top of mountain 3000 ft. high. Saw at least 25 all told.

1963

Multicilla flava

31 July Pitmegea River – Cape Sabine, Alaska

Adults and juveniles in 3-ft willows near river about 2 miles from mouth.

Anthus spinoletta

Aug 15, 1962, Lake Peters, Alaska; Stayed at base of mountain. Usually were found in groups of 2-3 or more.

Spizella arborea

Aug 15, 1962, Lake Peters, Alaska; one seen in a small bush at the base of the mountain in association w. the Wheatears, water pipits.

Passerculus sandwichensis

Aug 15, 1962, Lake Peters, Alaska, a few seen at base of mountain. Were with Water pipits, Wheatears, Tree sparrows.

1963

= *Passerculus*

Rassicularis sandwichensis

31 July Pitmegea River, Cape Sabine, Alaska

a few observed in 3-ft willows next to river about 3 miles from the mouth.

1463

Zonotrichia leucophrys

31 July Ptarmigan River – Cape Sabine, Alaska

One individual in willows adjacent to river about 3 mi from mouth.

Calcarius Lapponicus

11 June 1962 Salt lagoon #1 Pt. Barrow, alaska.
♂ & ♀ undergoing a type of scuffle with wing flapping. male attempted to mount the female. Just as he was atop, the female flew away. the male then went through the display pattern of flying high in the air (50 ft±) and gliding down while singing

June 12 at lines V and I; Pt. Barrow; a pair seen at each line, occasionally one would display the gliding action.
Gas line crossing Beach Ridge, Pt. B., ♂ chased female, mounted momentarily and suddenly left her to chase an intruding male Longspur.

June 14. Central marsh, Pt Barrow. a pair seen, the ♂ displaying occasionally

June 15. Gas line crosses Beach Ridge. Nest of 5 eggs found by Hines close to our line traps.

June 17, 1962, Voth Area Proper, Pt. Barrow; nest found with 6 eggs and marked.

June 20, 1962. Trap line IX, 10.0, Pt. Barrow, nest found with 6 eggs. Maher informed and it was marked.

June 23, 1962 Trap line IX, 10.0 - nest still only has 6 intact eggs
Row of drums nearest Fresh water lake road; 2 nests found, one with 3 eggs and the other with 4. Both were marked with orange stakes.

1963 *Calcarius lapponicus*

11 June Barrow, alaska
Males & females are in general abundance in most areas. Diplaying by males was seen on Beach ridge & Gasoline ridge. On Beach ridge, one male defended his claim on a female against another male. The clash was very short. The paired male bluffed once and the intruder retreated.

12 June. Barrow, alaska
Males and females are common in Voth area and adjacent to Family Lagoon. Only one display by a male was seen.

13 June Barrow, alaska.
Still very common, some displaying by males still.

14 June Barrow, alaska
a nest found in Voth Area between Voth creek and cakeeater site with 4 eggs and 1 hatched young!

15 June Wainwright, alaska
Only a few pair noticed. No display by ♂♂.

17 June Barrow, alaska
Several pairs were seen and other ♂♂ still doing aerial and song ~~disp~~ displays.

18 June Barrow, Alaska
Still abundant, ♀♀ nesting, a few aerial displays still continuing.

1963

Calcarius lapponicus

20 June Barrow, Alaska

A nest of 4 eggs in Barrel area.

21 June Barrow, Alaska

A nest with 3 young on Brant Point. A few days old.

22 June Barrow, Alaska

A nest 4 young, 3, a few days old and the other newly hatched near explosives shack and animal colony.

23 June Barrow, Alaska

A nest with 5 eggs on line VI near 3.6

24 July Pitmegea River - Cape Sabine

Many young hopping and flying in the area

Plectrophenax nivalis

11 June 1962 1/4 mi East of ARL, in western part of fresh water lake, Pt. Barrow, Alaska. Pair sighted

June 12. Central marsh, Pt. Barrow One pair sighted. (1400)

" " " " " " " (2200)

June 14. Central marsh, Pt. Barrow., 2 pair seen at different sites.
At Gas line, a pair seen.

June 15 Gas line before reaching Beach Ridge; 2 pair seen at different sites

June 16. Voth Area, Pt. Barrow; Nest found w/ 3 eggs. Location: 2nd high antenna running west from receiver station. Follow an arc of the barrels to the 11th barrel, which has a hole in it. Nest is at very back of barrel on south side.

June 23, Beach Ridge at Pipe line; checked nest for molar; still 7 eggs intact.
"Drum Area"; 2 nests found, both inside barrels & both marked w/ orange sticks.

July 10, 1962. Wannigan at North end of Lake Ikroavik; A pair of Buntings had set up a nest in one of the vents. This was noticed by Holmes last month. Now there are only nestlings, no eggs.

Aug 14, 1962, Peters Lake, Alaska; at base of mountain a few were seen in association with Wheatears, water pipits and Savannah sparrows. One was in molting cage for certain.

1963 <u>Plectrophenax</u> <u>nivalis</u>

11 June — Barrow, Alaska

♂ & ♀ on lines I & II at Gasline ridge. When ♀ flew west from the lines the ♂ followed.

14 June — Barrow, Alaska

♀ observed in central marsh near Drainage creek; ♂ not seen.

15 June. — Barrow, Alaska

a pair observed near lines IX & X.

21 June — Barrow, Alaska

a nest with 7 eggs under a plywood 3' × 7' slab. Parents were in vicinity. On Beach ridge close to AAES.

30 July — <u>Pitt rungea River, Cape Sabine</u>

One individual, molting, by cliffs next to river about 2 miles from camp.

20 Aug. — <u>Barrow, Alaska</u>

Juveniles are bunching in the Barrel area in number of 10 or less.

Lucostictatae tephrocotis

Aug 15, 1962, Lake Peters, Alaska; A group of 8-10 seen on side of mountain 1500' up. Were gregarious.

1963

Acanthis flammea

15 June Barrow, Alaska

One individual heard first and then seen over the Barrel area flying in a circle in the finch-undulating flight pattern while singing.

22 July Barrow, Alaska

A molting individual was seen by H. E. Childs in camp by my quonset. He almost caught it.

30 July Pitmegea River - Cape Sabine

Several heard, but not observed, in heavy willows near river.

Spermophilis undulatus

Aug 15, 1962, Lake Peters, Alaska; Large groups behind the camp; color varied from a full red to the grey with small tinges of red. Habitat was a grassy hillside strewn with rocks & boulders.

Mustela artica

11 June 1962. On slope ascending beach Ridge, Pt. Barrow, Alaska

1 individual seen; only appeared twice, each time running for about 25 ft. and then disappearing. Very few tracks.

Phoca sp.

July 14, Pt Barrow, Alaska; In calm water just off the point, one was surfacing off & on. Dived completely when I tried to get closer.

Rangifer sp.

July 10, 1962, East of Gas Well, Pt. Barrow; a lone caribou roaming staying at least three hundred yards away at all times.

August 2, 1962. Between Pt. Barrow and Liz III, Wainwright; 2-3 hundred caribou seen in groups of 3-10 and singly almost the entire distance.

August 12, 1962. Between ARL and Lake Peters; the course followed by the pilot passed a couple of hundred in small groups.

August 19, 1962, Ivarne River, Alaska; Caribou are on both sides of the river. One group (8) came with a hundred feet, but since then, have not been able to get with two hundred yards. Do not seem to be moving anywhere in particular except back & forth across the river.

Ovis dalli

Aug 16, 1962, Lake Peters, Alaska; Two groups of three seen, one in a small dale, feeding, and another group sprinting up a sheer cliff to rest on small ledges. Came upon a ram at its cave head on. The ram knew we were coming at all times. Did not move away until after a full minute of staring at each other for a full minute. When it did move, moved slowly to the side, posed for a moment on a rock and then went over the mountain.

7 8899